

**Statement of Basis
Automotive Coating Operations General Permit**

Final

**Bonanza Motors
Young Automotive Team
Burley, Idaho
Facility ID No. 031-00042
Permit to Construct P-2010.0160
Project No. 60638**

December 23, 2010
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Permit Writer

The purpose of this Statement of Basis is to satisfy the requirements of IDAPA 58.01.01. et seq, Rules for the Control of Air Pollution in Idaho, for issuing air permits.

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ACRONYMS, UNITS, AND CHEMICAL NOMENCLATURE

AQCR	Air Quality Control Region
Btu	British thermal units
CAS No.	Chemical Abstracts Service registry number
CE	Control Efficiency
CFR	Code of Federal Regulations
CO	carbon monoxide
DEQ	Department of Environmental Quality
EL	screening emission levels
EPA	U.S. Environmental Protection Agency
gal/day	gallons per calendar day
gal/hr	gallons per hour
gal/yr	gallons per consecutive 12 calendar month period
gr	grain (1 lb = 7,000 grains)
HAP	hazardous air pollutants
HDI	hexamethylene diisocyanate
hr/yr	hours per year
HVLP	high volume, low pressure (applies to paint guns)
IDAPA	a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
lb/gal	pounds per gallon
lb/hr	pounds per hour
LPG	Liquefied Petroleum Gas
MDI	methylene diisocyanate
MMBtu	million British thermal units
MSDS	Material Safety Data Sheets
NAICS	North American Industry Classification System
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO ₂	nitrogen dioxide
NO _x	nitrogen oxides
NSPS	New Source Performance Standards
PC	permit condition
PM ₁₀	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
ppm	parts per million
PTC	permit to construct
PTE	potential to emit
Rules	Rules for the Control of Air Pollution in Idaho
scf	standard cubic feet
SIC	Standard Industrial Classification
SM80	synthetic minor facility with emissions greater than or equal to 80% of a major source threshold
SO ₂	sulfur dioxide
SO _x	sulfur oxides
T/yr	tons per consecutive 12-calendar month period
T2	Tier II operating permit
TAP	toxic air pollutants
TE	transfer efficiency
UTM	Universal Transverse Mercator
VOC	volatile organic compounds

FACILITY INFORMATION

Description

Bonanza Motors is an auto body repair and refinishing facility with paint spray booths which are equipped with a paint spray booth heater. The paint spray booths are pressurized downdraft booths with glass fiber filtration media for control of particulate emissions. Drying and paint curing is done in the paint spray booths. The paint spray booths are equipped with a natural gas-fired burner to heat the paint spray booths. The process includes application of coatings via HVLP (or equivalent with at least 65% transfer efficiency) paint spray guns.

Permitting History

This is the initial PTC for an existing facility that was constructed in 1997, thus there is no permitting history.

Application Scope

This is the initial PTC for an existing facility that was constructed in 1997.

Application Chronology

November 23, 2010	DEQ received an application and a \$1,500 application and processing fee.
December 1, 2010	DEQ determined that the application was incomplete.
December 7 – 22, 2010	DEQ provided an opportunity to request a public comment period on the application and proposed permitting action.
December 3, 2010	DEQ received supplemental information from the applicant concerning bed liner coatings.
December 17, 2010	DEQ made available the draft permit and statement of basis for peer review.
December 23, 2010	DEQ issued the final permit and statement of basis.

TECHNICAL ANALYSIS

The facility utilizes glass fiber filtration media for control of particulate matter emissions from the automotive coating operation. In addition, HVLP paint guns (or equivalent) are used to minimize PM₁₀ and VOC emissions from painting. The HVLP (or equivalent) spray equipment will control PM₁₀ and VOC emissions by having more paint transfer to the desired surfaces than traditional painting equipment.

Emissions Units and Control Devices

Table 1 EMISSIONS UNIT AND CONTROL DEVICE INFORMATION

ID No.	Source Description	Control Equipment Description
Automotive Coating Operations	<p><u>Paint spray booths</u> Manufacturer: SAICO Note: The number of booths installed at the facility is not limited by this permit.</p> <p><u>Paint spray booth heater(s)</u> Manufacturer: Power Flame or equivalent Heat input capacity: up to 10.0 MMBtu/hr Fuel: natural gas only</p>	<p><u>Paint spray booths and preparation station filter systems</u> Booth type: Down draft Manufacturer: SAICO Particulate filtration method: Dry filters Filter Manufacturers: PAG, AJ Dralle Inc., Chemco, or equivalent PM/PM₁₀ control efficiency: 98% or greater</p> <p><u>Coating spray guns</u> Manufacturer: IWATA or equivalent Model: LPH 440, LPH400LV, or equivalent</p> <p><u>Coating spray guns</u> Manufacturer: SATA, SATAjet, or equivalent Model: L2000 Digital, 3000, RP, 100B, Minijet 4, or equivalent Type: HVLP or equivalent Transfer efficiency: 65% or greater</p>

Emission Inventories

An emission inventory was developed for the automotive coating operation associated with this proposed project (see Appendix A for a detailed discussion). Emission estimates of criteria pollutant PTE were based on the worst-case VOC and PM₁₀ content for coatings as taken from the DEQ Automotive Coating EI spreadsheet (see the DEQ website). Uncontrolled emissions were based upon scaling the annual controlled PTE (based upon the daily coating use limit and typical operation of 2,080 hr/yr) up to an uncontrolled annual PTE based upon operation of 8,760 hr/yr.

Uncontrolled Emissions:

The following table presents the post project uncontrolled emissions for criteria pollutants as submitted by the applicant and verified by DEQ staff. See Appendix A for a detailed presentation of the calculations and the assumptions used to determine emissions for each emissions unit. Uncontrolled annual emissions were calculated by scaling up the coating operation from normal business annual operations of 2,080 hrs/yr (8 hrs/day x 260 days/yr, normal business hours) to uncontrolled annual operation of 8,760 hrs/yr (24 hrs/day x 365 days/yr).

Table 2 POST PROJECT UNCONTROLLED EMISSIONS FOR CRITERIA POLLUTANTS

Emissions Unit	PM ₁₀	SO ₂	NO _x	CO	VOC	Lead
	T/yr	T/yr	T/yr	T/yr	T/yr	lb/quarter
Point Sources						
Paint spray booths and preparation stations	53.80	0.0	0.0	0.0	59.27	0.0
Paint spray booth heater ^a	0.33	0.03	4.04	1.72	0.24	0.011
Total, Point Sources	54.13	0.03	4.04	1.72	59.51	0.011

a) Estimates provided in this summary table are for a heater with a heat input capacity of 10 MMBtu/hr, while the proposed heater is of lesser capacity.

As demonstrated in Table 2, the facility has an uncontrolled potential to emit for PM₁₀, SO₂, NO_x, CO, and VOC emissions less than the major source threshold of 100 T/yr. Therefore, this facility is not designated as a Synthetic Minor facility. As demonstrated in Table 3 as follows the facility’s PTE for all criteria pollutants is less than 80% of the major source thresholds of 100 T/yr. Therefore, this facility will not be designated as a SM-80 facility.

This is an existing facility. However, since this is the first time the facility is receiving a permit, pre-project emissions are set to zero for all criteria pollutants.

Post Project Potential to Emit

The following table presents the post project potential to emit for criteria pollutants from all emissions units at the facility as submitted by the applicant and verified by DEQ staff. See Appendix A for a detailed presentation of the calculations of these emissions for each emissions unit.

Table 3 POST PROJECT POTENTIAL TO EMIT FOR CRITERIA POLLUTANTS

Emissions Unit	PM ₁₀		SO ₂		NO _x		CO		VOC		Lead	
	lb/hr ^a	T/yr ^b	lb/hr ^a	T/yr ^b	lb/hr ^a	T/yr ^b	lb/hr ^a	T/yr ^b	lb/hr ^a	T/yr ^b	lb/hr	T/yr
Point Sources												
Paint spray booth(s) and/or preparation station(s)	0.03	0.13	0.000	0.000	0.00	0.00	0.00	0.00	4.56	19.98	0	0
Paint booth heater ^c	0.08	0.09	0.006	0.03	0.93	0.97	0.40	0.42	0.06	0.07	0.000005	0.000006
Post-Project Totals	0.11	0.22	0.01	0.03	0.93	0.97	0.40	0.42	4.62	20.05	0.000005	0.000006

- a) Controlled average emission rate in pounds per hour is a daily average, based on the proposed daily operating schedule and daily limits.
- b) Controlled average emission rate in tons per year is an annual average, based on the proposed annual operating schedule and annual limits.
- c) Estimates provided in this summary table are for a heater with a heat input capacity of 10 MMBtu/hr, while the proposed heater is of lesser capacity.

As demonstrated in Tables 2 and 3, this facility has an uncontrolled potential to emit for all criteria pollutant emissions less than the major source threshold of 100 T/yr and a controlled potential to emit for all criteria pollutant emissions less than the major source threshold of 100 T/yr. Therefore, this facility is designated as a Minor facility. As demonstrated in Table 3 the facility’s PTE for all criteria pollutants is less than 80% of the major source thresholds of 100 T/yr. Therefore, this facility will not be designated as a SM-80 facility.

Change in Potential to Emit

The change in facility-wide potential to emit is used to determine if a public comment period may be required or if emission modeling may be required, and to determine the processing fee per IDAPA 58.01.01.225. The following table presents the facility-wide change in the potential to emit for criteria pollutants.

Table 4 CHANGES IN POTENTIAL TO EMIT FOR CRITERIA POLLUTANTS

	PM ₁₀		SO ₂		NO _x		CO		VOC		Lead	
	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Point Sources												
Pre-Project Potential to Emit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Post Project Potential to Emit	0.11	0.22	0.01	0.03	0.93	0.97	0.40	0.42	4.62	20.05	0.000005	0.000006
Changes in Potential to Emit	0.11	0.22	0.01	0.03	0.93	0.97	0.40	0.42	4.62	20.05	0.000005	0.000006

Because of the daily coating material use limits imposed by DEQ, and agreed to by the facility in applying for this Automotive Coating “General Permit”, no EL specified in IDAPA 58.01.01.585 or 586 are expected to be exceeded by the facility (see Appendix A). In addition, because daily coating use is limited to 4.0 gal/day facility-wide HAP emissions are inherently limited to less than 10 T/yr for any one HAP and 25 T/yr for all combined HAP (see Appendix A).

Ambient Air Quality Impact Analyses

Because of the daily coating material use limits imposed by DEQ, and agreed to by the facility in applying for this Automotive Coating “General Permit”, it needs to be determined if the PTE for the automotive coating operation exceeds the DEQ modeling guideline thresholds. The following table compares the post-project facility-wide annual emissions to the DEQ modeling guideline thresholds (per the State of Idaho Air Quality Modeling Guideline, 12/31/2002).

Table 5 PTE FOR CRITERIA POLLUTANTS COMPARED TO THE DEQ MODELING GUIDELINE THRESHOLDS

Pollutant	PTE (T/yr) or lb/hr if listed	DEQ Modeling Guideline Thresholds (T/yr) or lb/hr if listed	Exceeds Modeling Guideline Threshold?
PM ₁₀	0.22 or 0.11 lb/hr	1 or 0.2 lb/hr	No
SO ₂	0.03	1	No
NO _x	0.97	1	No
CO	0.42 lb/hr	14 lb/hr	No
Lead	6E-5 or 0.004 lb/mo	0.6 or 10 lb/month	No

Therefore, the installation of the automotive coating operation does not require criteria pollutant modeling.

As presented previously in the DEQ Automotive Coatings EI Spreadsheet (see the DEQ website) there are no TAP that required facility modeling for exceeding the pounds per hour screening levels provided in IDAPA 58.01.01.585 and .586. Therefore, the installation of a new automotive coating operation does not require TAP modeling.

REGULATORY ANALYSIS

Attainment Designation (40 CFR 81.313)

The facility is located in Cassia County, which is designated as attainment or unclassifiable for PM_{2.5}, PM₁₀, SO₂, NO₂, CO, and Ozone. Refer to 40 CFR 81.313 for additional information.

Permit to Construct (IDAPA 58.01.01.201)

An application was submitted requesting a permit to construct the proposed facility. Therefore, this permitting action was processed in accordance with the procedures of IDAPA 58.01.01.200-228.

Tier II Operating Permit (IDAPA 58.01.01.401)

An application was submitted for a permit to construct, and an optional Tier II operating permit was not requested. Therefore, the procedures of IDAPA 58.01.01.400-410 were not applicable to this permitting action.

Visible Emissions (IDAPA 58.01.01.625)

The emissions from the automotive coating process are subject to the State of Idaho visible emissions standard of 20% opacity. This requirement is assured by Permit Condition 6.

Rules for the Control of Odors (IDAPA 58.01.01.775-776)

The facility is subject to the general restrictions for the control of odors from the facility. This requirement is assured by Permit Conditions 7 and 13.

Title V Classification (IDAPA 58.01.01.300, 40 CFR Part 70)

IDAPA 58.01.01.006.118 defines a Tier I source as “any source located at a major facility as defined in Section 008.” IDAPA 58.01.01.008.10 defines a Major Facility as either:

- For HAP a facility with the potential to emit ten (10) tons per year (T/yr) or more of any hazardous air pollutant, other than radionuclides, or
- The facility emits or has the potential to emit twenty-five (25) T/yr or more of any combination of any hazardous air pollutants, other than radionuclides.

Uncontrolled HAP emissions were calculated by using the DEQ Automotive Coating EI spreadsheet (see the DEQ website) and setting paint use to 4.0 gallons per day (as limited by the permit). Then worst-case HAP emissions were determined for all paints listed in the spreadsheet. Then emissions were assumed to occur 8,760 hours per year as a worst-case assumption.

HAP emission estimates are provided in Appendix A to the Statement of Basis. The PTE for each individual HAP is less than 10 T/yr, and the PTE for all combined HAP is less than 25 T/yr. Therefore, this facility is not a HAP major source subject to Tier I permitting requirements.

The following table compares the post-project facility-wide annual PTE for all criteria pollutants emitted by the source to the applicable criteria pollutant major source thresholds in order to determine if the facility is a criteria pollutant major source.

Table 6 PTE FOR CRITERIA POLLUTANTS COMPARED TO THE CRITERIA POLLUTANT MAJOR SOURCE THRESHOLDS

Criteria Pollutants	PTE (T/yr)	Major Source Threshold (T/yr)	Exceeds the Major Source Threshold?
PM ₁₀	0.22	100	No
SO ₂	0.03	100	No
NO _x	0.97	100	No
CO	0.42	100	No
VOC	20.05	100	No

As presented in the preceding table the PTE for each criteria pollutant is less than 100 T/yr. Therefore, this facility is not a criteria pollutant major source subject to Tier I permitting requirements.

PSD Classification (40 CFR 52.21)

The facility is not a major stationary source as defined in 40 CFR 52.21(b)(1), nor is it undergoing any physical change at a stationary source, not otherwise qualifying under paragraph 40 CFR 52.21(b)(1) as a major stationary source, that would constitute a major stationary source by itself as defined in 40 CFR 52. Therefore, in accordance with 40 CFR 52.21(a)(2), PSD requirements are not applicable.

NSPS Applicability (40 CFR 60)

The facility is not subject to any NSPS requirements.

NESHAP Applicability (40 CFR 61)

The facility is not subject to any NESHAP requirements in 40 CFR 61.

MACT Applicability (40 CFR 63)

40 CFR 63, Subpart HHHHHH..... National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources

40 CFR 63.11169 What is the purpose of this subpart?

In accordance with §63.11169, subpart HHHHHH establishes national emission standards for hazardous air pollutants (HAP) for area sources involved in auto body refinishing operations that encompass motor vehicle and mobile equipment spray-applied surface coating operations.

40 CFR 63.11170 Am I subject to this subpart?

In accordance with §63.11170(a), this automotive coating operation is subject to this subpart because the facility will be operated as an area source of HAP. The facility is a source of HAP that is not a major source of HAP, is not located at a major source, and is not part of a major source of HAP emissions. In addition, the facility will perform one or more activities listed in this section, including spray application of coatings, as defined in §63.11180, to motor vehicles and mobile equipment including operations that are located in stationary structures at fixed locations.

40 CFR 63.11171 How do I know if my source is considered a new source or an existing source?

In accordance with §63.11171(b), the automotive coating operation is the collection of mixing rooms and equipment; spray booths, curing ovens, and associated equipment; spray guns and associated equipment; spray gun cleaning equipment; and equipment used for storage, handling, recovery, or recycling of cleaning solvent or waste paint. Paint stripping was not proposed as a business activity.

In accordance with §63.11171(c), this automotive coating operation is an existing source because it commenced construction prior to September 17, 2007, by installing new paint stripping or surface coating equipment, and the new surface coating equipment will be used at a source that was actively engaged in paint stripping and/or miscellaneous surface coating prior to September 17, 2007.

40 CFR 63.11172 When do I have to comply with this subpart?

In accordance with §63.11172(a)(2), because the initial startup of the facility occurred prior to January 9, 2008, the compliance date is January 10, 2011.

40 CFR 63.11173 What are my general requirements for complying with this subpart?

Because the facility has not proposed paint-stripping activities, the requirements of §63.11173(a) through (f) are not applicable. Because the facility is an automotive coating operation, in accordance with §63.11173(e), the permittee must meet the requirements in paragraphs (e)(1) through (e)(5) of this section.

In accordance with §63.11173(f), each owner or operator of an affected automotive coating operation must ensure and certify that all new and existing personnel, including contract personnel, who spray apply surface coatings, as defined in §63.11180, are trained in the proper application of surface coatings as required by paragraph (e)(1) of this section. The training program must include, at a minimum, the items listed in paragraphs (f)(1) through (f)(3) of this section.

In accordance with §63.11173(g), as required by paragraph (e)(1) of this section, all new and existing personnel at an affected motor vehicle and mobile equipment or miscellaneous surface coating source, including contract personnel, who spray apply surface coatings, as defined in §63.11180, must be trained by the dates specified in paragraphs (g)(1) and (2) of this section. Employees who transfer within a company to a position as a painter are subject to the same requirements as a new hire.

Compliance with these requirements is assured by Permit Condition 18.

40 CFR 63.11174 What parts of the General Provisions apply to me?

In accordance with §63.11174(a), Table 1 of this subpart shows which parts of the general provisions in Subpart A apply. Compliance with these requirements is assured by Permit Condition 17.

In accordance with §63.11174(b), an owner or operator of an area source subject to this subpart is exempt from the obligation to obtain a permit under 40 CFR part 70 or 71 provided that a permit under 40 CFR 70.3(a) or 71.3(a) is not required for a reason other than becoming area source subject to this subpart. This permit application and permitting action involve a permit to construct, and will not utilize the requirements and procedures in IDAPA 58.01.01.300-399 for the issuance of Tier I operating permits.

40 CFR 63.11175 What notifications must I submit?

In accordance with §63.11175(a), because the facility is a surface coating operation subject to this subpart, the initial notification required by §63.9(b) must be submitted. For this existing operation, the initial notification must be submitted no later than on or before March 11, 2011.

In accordance with §63.11175(b), because the facility is an existing source, the permittee is not required to submit a separate notification of compliance status in addition to the initial notification specified in paragraph (a) of this subpart provided the permittee was able to certify compliance on the date of the initial notification, as part of the initial notification, and the permittee's compliance status has not since changed. The permittee must submit a notification of compliance status on or before March 11, 2011. The permittee is required to submit the information specified in paragraphs (b)(1) through (4) of this section with the notification of compliance status.

Compliance with these requirements is assured by Permit Condition 19.

40 CFR 63.11176 What reports must I submit?

In accordance with §63.11176(a), because the permittee is an owner or operator of a paint stripping, motor vehicle or mobile equipment, or miscellaneous surface coating affected source, the permittee is required to submit a report in each calendar year in which information previously submitted in either the initial notification required by §63.11175(a), notification of compliance, or a previous annual notification of changes report submitted under this paragraph, has changed. Deviations from the relevant requirements in §63.11173(a) through (d) or §63.11173(e) through (g) on the date of the report will be deemed to be a change. The annual notification of changes report must be submitted prior to March 1 of each calendar year when reportable changes have occurred and must include the information specified in paragraphs (a)(1) through (2) of this section.

Compliance with these requirements is assured by Permit Condition 20.

Because the facility has not proposed to conduct paint stripping operations, the MeCl minimization plan requirements are not applicable (see Permit Condition 9).

40 CFR 63.11177 What records must I keep?

In accordance with §63.11177, because the permittee is the owner or operator of a surface coating operation, the permittee must keep the records specified in paragraphs (a) through (d) and (g) of this section. Because the permittee has not proposed to conduct paint stripping operations, the requirements of paragraphs (e) and (f) of this section are not applicable. Compliance with these requirements is assured by Permit Condition 18.

40 CFR 63.11178 In what form and for how long must I keep my records?

In accordance with 40 CFR 63.11178(a) because the permittee is the owner or operator of an affected source, the permittee must maintain copies of the records specified in §63.11177 for a period of at least five years after the date of each record. Copies of records must be kept on site and in a printed or electronic form that is readily accessible for inspection for at least the first two years after their date, and may be kept off-site after that two year period. Compliance with these requirements is assured by Permit Condition 18.

40 CFR 63.11179 Who implements and enforces this subpart?

In accordance with §63.11179(a), this subpart can be implemented and enforced by the U.S. Environmental Protection Agency (EPA), or a delegated authority. At the time of this permitting action, the EPA has not delegated authority to the State of Idaho. However, IDAPA 58.01.01.107.03.i incorporates by reference all Federal Clean Air Act requirements including 40 CFR 63, Subpart HHHHHH. Therefore, the requirements of this subpart have been placed in the permit.

40 CFR 63.11180 What definitions do I need to know?

Terms used in this subpart are defined in accordance with §63.11180.

Permit Conditions Review

This section describes the permit conditions for this initial permit.

Permit Condition 1 establishes the permit to construct scope.

Permit Condition 2 provides a description of the purpose of the permit and the regulated sources, the process, and the control devices used at the facility.

Permit Condition 3 provides a process description of the facility.

Permit Condition 4 provides a description of the control devices used at the facility.

Permit Condition 5 establishes hourly and annual emissions limits for PM₁₀ and VOC emissions from the automotive coating operation.

As mentioned previously, Permit Condition 6 establishes a 20% opacity limit for the paint booth stacks, vents, or functionally equivalent openings associated with the automotive coating operation.

As mentioned previously, Permit Condition 7 establishes that the permittee shall not allow, suffer, cause, or permit the emission of odorous gasses, liquids, or solids to the atmosphere in such quantities as to cause air pollution.

Permit Condition 8 establishes that only natural gas is allowed to be used as fuel in the paint booth heater as proposed by the applicant.

Permit Condition 9 establishes that the facility will not use MeCl to remove paint from vehicles at the facility. This was done because MeCl was not proposed by the applicant to be used at this facility and the emissions were not included in the DEQ Automotive Coating EI Spreadsheet (see the DEQ website). In addition, Subpart HHHHHH has additional requirements for facilities that use MeCl to remove paint as mentioned previously in the discussion of Subpart HHHHHH in the MACT Applicability Section.

Permit Condition 10 establishes a daily use limit for all coating materials used in the automotive coating process as proposed by the applicant. This limit was established because it was the easiest way for the applicant to demonstrate compliance with the PM₁₀ and VOC emission limits specified in Permit Condition 5 and the TAP emissions estimates specified in the DEQ Automotive Coating EI Spreadsheet (see the DEQ website).

Permit Condition 11 excludes bed liner component B coatings from each daily usage total. For those bed liner coatings analyzed, component B coatings did not contain substances which would result in emissions of regulated TAP. Component A coatings (also referred to as the “iso” component) are counted toward the daily usage limit in Permit Condition 10 because these coatings contain isocyanates (including HDI and/or MDI) which result in the emissions of regulated TAP.

Permit Condition 12 establishes that the permittee conduct all automotive coating operations in the paint booth or preparation station with the filters in place, exhaust fan(s) operating, and door(s) or curtain(s) closed, that the operation shall use a HVLP spray gun, and that the permittee shall maintain and operate the paint booth and exhaust filter system in accordance with the manufacturer’s specifications. This condition also defines what a booth and preparation station used for applying coating is.

Permit Condition 13 establishes that the permittee shall maintain records of all odor complaints received, perform appropriate corrective actions, and maintain records of corrective actions taken at the facility for the automotive coating process. This was required because automotive operation operations are expected to have odors that might be offensive to their immediate neighbors.

Permit Condition 14 establishes that the permittee shall maintain material purchase records and Material Safety Data Sheets (MSDS) for the automotive coating process. This condition was placed in the permit to ensure compliance with the Coating Materials Use Limit permit condition.

Permit Condition 15 establishes that the permittee shall maintain daily usage records of pre-treatment wash primers, primers, topcoats, clear coats, thinners/reducers, and bed liner components containing isocyanates materials used in the automotive coating process. This condition was placed in the permit to ensure compliance with the Coating Materials Use Limit permit condition.

Permit Condition 16 establishes that the permittee shall maintain records as required by the General Provision recordkeeping requirements.

Permit Condition 17 establishes parameters that will allow the facility to comply with the general operating requirements of 40 CFR 63, Subpart HHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Coating Operations unless the facility is exempt from HHHHHH.

Permit Condition 18 establishes parameters that will allow the facility to comply with the monitoring and recordkeeping requirements of 40 CFR 63, Subpart HHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Coating Operations unless the facility is exempt from HHHHHH.

Permit Condition 19 establishes parameters that will allow the facility to comply with the initial notification and reporting requirements of 40 CFR 63, Subpart HHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Coating Operations unless the facility is exempt from HHHHHH.

Permit Condition 20 establishes parameters that will allow the facility to comply with the annual notification and reporting requirements of 40 CFR 63, Subpart HHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Coating Operations unless the facility is exempt from HHHHHH.

Permit Condition 21 establishes that the federal requirements of 40 CFR Part 63 are incorporated by reference into the requirements of this permit per current DEQ guidance.

PUBLIC REVIEW

Public Comment Opportunity

An opportunity for public comment period on the application was provided in accordance with IDAPA 58.01.01.209.01.c or IDAPA 58.01.01.404.01.c. During this time, there were no comments on the application and there was not a request for a public comment period on DEQ’s proposed action. Refer to the chronology for public comment opportunity dates.

APPENDIX A – EMISSION INVENTORIES

Coating Operation Emissions Calculations:

A daily coatings material use limit was established for Automotive Coating operations to demonstrate compliance with state law. Specifically, compliance with IDAPA 58.01.01.585 and .586 for toxic air pollutants (TAP) needs to be determined. Therefore, DEQ staff created the DEQ Automotive Coating EI spreadsheet (see the DEQ website). This spreadsheet contains paints from two different manufacturers of paints used in the automotive coating industry and multiple paint systems for each brand. The paint brands chosen were based upon discussions with a national paint distributor with several stores throughout the state of Idaho. The TAP data entered in the spreadsheet was taken from the MSDS for the paints listed. Included in the calculations was a safety factor of 20% since all paints available were not analyzed. With this safety factor it is reasonably presumed that the data represents all available automotive coatings. The spreadsheet was then used to demonstrate that with 4.0 gallons per day of coating use, the EL listed in IDAPA 58.01.01.585 and .586 would not be exceeded for any of the coatings listed in the spreadsheet. The 4.0 gallons per day of coating was then used to determine worst-case PM₁₀ and VOC emissions from Automotive Coating operations.

Spray booth emissions of methylene diisocyanate (MDI) resulting from the application of the “iso” component coating during bed lining coating operations were estimated using the equation and assumptions from Section 19.0 of the MDI/Polymeric MDI Emissions Reporting Guidelines for the Polyurethane Industry.¹ In this equation it was assumed that 100% of the “iso” component sprayed was MDI ($k_{MDI} = 1.0$), that the combined spray and dry time to apply up to 4 gallons of MDI-based "iso" component was 4 hours or less per day, that “iso” spray coatings were applied 365 days per year, and that “iso” spray coatings were applied at less than 95°F. Although spray booth filtration is required, no additional removal or reduction of MDI emissions was assumed (0% control efficiency).

Uncontrolled annual emissions were estimated by scaling up the coating operation from the 2,080 hrs/yr (8 hr/day x 260 day/yr, normal business hours) to 8,760 hr/yr (24 hr/day x 365 day/yr). Therefore the scaling factor = $8,760 \text{ hr/yr} \div 2,080 \text{ hr/yr} = 4.2$.

Detailed emissions estimates from the spreadsheet are provided in the following pages.

Paint Booth Heater Emissions Calculations:

To determine worst-case emissions from the paint booth(s) heater(s) the maximum heat input rating of the burner was assumed to be 10 MMBtu/hr with operation of 2,080 hr/yr.

Uncontrolled annual emissions were again estimated by scaling up the operation of the burner from the 2,080 hr/yr (8 hr/day x 260 day/yr, normal business hours) to 8,760 hr/yr (24 hr/day x 365 day/yr).

Therefore the scaling factor = $8,760 \text{ hr/yr} \div 2,080 \text{ hr/yr} = 4.2$.

Detailed emissions estimates from the spreadsheet are provided in the following pages.

¹ MDI/Polymeric MDI Emissions Reporting Guidelines for the Polyurethane Industry, Alliance for the Polyurethanes Industry (API), 2004.

**General PTC
Automotive Coating
Emission Inventory - maximum TAP/HAP results of all coatings analyzed and including booth heater emissions**

Criteria Air Pollutants	Booth Emissions		Heater Emissions		Combined Emissions		Modeling Threshold		Below Threshold?	Modeling Threshold		Below Threshold?
	lb/hr	lb/hr	lb/hr	T/yr	lb/hr	T/yr	2002 Guidance	Case-by-Case				
NO ₂	0.00	0.93	0.93	0.97	0.97	0.97	1 T/yr	7 T/yr	Yes	7 T/yr	Yes	
CO	0.00	0.40	0.40	0.42	0.42	0.42	14 lb/hr	70 lb/hr	Yes	70 lb/hr	Yes	
PM ₁₀	0.03	0.08	0.11	0.22	0.22	0.22	0.2 lb/hr	0.9 lb/hr	Yes	0.9 lb/hr	Yes	
SO _x	0.000	0.006	0.006	0.03	0.03	0.03	1 T/yr	7 T/yr	Yes	7 T/yr	Yes	
VOC	4.56	0.06	4.62	20.04	20.04	20.04	1 T/yr	40 T/yr	Yes	7 T/yr	Yes	
Lead	0.E+00	5.E-06	5.E-06	6.E-06	6.E-06	6.E-06	0.6 T/yr	0.6 T/yr	Yes			
	0.000	0.004	0.004				10 lb/mo	10 lb/mo	Yes			

Note: 100 lb/mo Pb in guidance reduced by factor of 10 based on latest Pb NAAQS (reduced in 2008 from 1.5 ug/n³ to 0.15 ug/m³)

Hazardous Air Pollutants (HAP) and Toxic Air Pollutants (TAP)						
	Booth Emissions	Heater Emissions	Combined Emissions	Combined Emissions	Modeling Threshold	Below Threshold?
	lb/hr	lb/hr	lb/hr	T/yr	EL (lb/hr)	
Organic HAP PAH						
2-Methylnaphthalene	0.00E+00	5.59E-08	5.59E-08	5.81E-08	9.10E-05	Yes
3-Methylchloranthrene	0.00E+00	4.19E-09	4.19E-09	4.36E-09	2.50E-06	Yes
Acenaphthene	0.00E+00	4.19E-09	4.19E-09	4.36E-09	9.10E-05	Yes
Acenaphthylene	0.00E+00	4.19E-09	4.19E-09	4.36E-09	9.10E-05	Yes
Anthracene	0.00E+00	5.59E-09	5.59E-09	5.81E-09	9.10E-05	Yes
Benzo(a)anthracene	0.00E+00	4.19E-09	4.19E-09	4.36E-09	9.10E-05	See POM
Benzo(a)pyrene	0.00E+00	2.79E-09	2.79E-09	2.91E-09	2.00E-06	See POM
Benzo(b)fluoranthene	0.00E+00	4.19E-09	4.19E-09	4.36E-09	9.10E-05	See POM
Benzo(g,h,i)perylene	0.00E+00	2.79E-09	2.79E-09	2.91E-09	9.10E-05	Yes
Benzo(k)fluoranthene	0.00E+00	4.19E-09	4.19E-09	4.36E-09	9.10E-05	See POM
Chrysene	0.00E+00	4.19E-09	4.19E-09	4.36E-09	9.10E-05	See POM
Dibenz(a,h)anthracene	0.00E+00	2.79E-09	2.79E-09	2.91E-09	9.10E-05	See POM
Dichlorobenzene	0.00E+00	2.79E-06	2.79E-06	2.91E-06	9.10E-05	Yes
7,12-Dimethylbenz(a)anthracene	0.00E+00	1.57E-07	1.57E-07	1.63E-07	9.10E-05	Yes
Fluoranthene	0.00E+00	6.98E-09	6.98E-09	7.26E-09	9.10E-05	Yes
Fluorene	0.00E+00	6.52E-09	6.52E-09	6.78E-09	9.10E-05	Yes
Indeno(1,2,3-cd)pyrene	0.00E+00	4.19E-09	4.19E-09	4.36E-09	9.10E-05	See POM
Phenanthrene	0.00E+00	3.96E-08	3.96E-08	4.12E-08	9.10E-05	Yes
Pyrene	0.00E+00	1.16E-08	1.16E-08	1.21E-08	9.10E-05	Yes
Polycyclic Organic Matter (POM, 7-F)	0.00E+00	2.65E-08	2.65E-08	2.76E-08	2.00E-06	Yes
Organic HAP Non-PAH						
Benzene	0.00E+00	4.89E-06	4.89E-06	5.08E-06	8.00E-04	Yes
Ethyl Benzene	1.40E-01	0.00E+00	1.40E-01	6.14E-01	2.90E+01	Yes
Hexamethylene Diisocyanate (HDI)	2.00E-03	0.00E+00	2.00E-03	8.74E-03	2.00E-03	Yes
n-Hexane	2.51E-02	1.76E-02	4.28E-02	1.28E-01	2.00E+01	Yes
Methyl Ethyl Ketone (MEK)	2.76E-01	0.00E+00	2.76E-01	1.21E+00	3.93E+01	Yes
Methyl Isobutyl Ketone (MIBK)	2.87E-01	0.00E+00	2.87E-01	1.26E+00	1.37E+01	Yes
Methylene Diisocyanate (MDI)	2.83E-03	0.00E+00	2.83E-03	1.24E-02	3.00E-03	Yes
Styrene	5.73E-01	0.00E+00	5.73E-01	2.51E+00	6.67E+00	Yes
Toluene	4.38E-01	3.33E-05	4.38E-01	1.92E+00	2.50E+01	Yes
Xylene	5.07E-01	0.00E+00	5.07E-01	2.22E+00	2.90E+01	Yes
Organic Non-HAP						
Acetone	1.56E+00	0.00E+00	1.56E+00	6.83E+00	1.19E+02	Yes
Butyl Acetate	1.19E+00	0.00E+00	1.19E+00	5.21E+00	4.73E+01	Yes
n-Butyl Alcohol	1.10E+00	0.00E+00	1.10E+00	4.81E+00	1.00E+01	Yes
Carbon Black	8.33E-04	0.00E+00	8.33E-04	3.65E-03	2.30E-01	Yes
Cyclohexane	1.29E-02	0.00E+00	1.29E-02	5.64E-02	7.00E+01	Yes
Diisobutyl Ketone	8.30E-02	0.00E+00	8.30E-02	3.64E-01	9.67E+00	Yes
Ethyl Acetate	2.45E-01	0.00E+00	2.45E-01	1.07E+00	9.33E+01	Yes
Ethyl Alcohol	1.90E-02	0.00E+00	1.90E-02	8.34E-02	1.25E+02	Yes
Formaldehyde	0.00E+00	1.75E-04	1.75E-04	1.82E-04	5.10E-04	Yes
Heptane	2.09E-02	0.00E+00	2.09E-02	9.17E-02	1.09E+02	Yes
Isobutanol	3.55E-01	3.33E-05	3.55E-01	1.56E+00	1.00E+01	Yes
Isobutyl Acetate	1.10E-02	0.00E+00	1.10E-02	4.82E-02	4.67E+01	Yes
Isophorone Diisocyanate Polymer	2.50E-03	1.57E-07	2.50E-03	1.10E-02	6.00E-03	Yes
Isopropyl Alcohol (IPA)	6.63E-01	2.06E-02	6.84E-01	2.93E+00	6.53E+01	Yes
Kaolin	3.93E-03	3.04E-02	3.43E-02	4.88E-02	1.33E-01	Yes
1-Methoxy-2-Propanol Acetate	3.21E-01	2.55E-02	3.46E-01	1.43E+00	2.40E+01	Yes
Methyl Acetate	3.32E-01	1.57E-02	3.48E-01	1.47E+00	4.07E+01	Yes
Methyl Amyl Ketone	1.43E+00	0.00E+00	1.43E+00	6.25E+00	1.57E+01	Yes
Methyl Isoamyl Ketone	7.85E-02	4.31E-05	7.85E-02	3.44E-01	1.60E+01	Yes
Methyl Propyl Ketone	1.58E-01	2.56E-06	1.58E-01	6.90E-01	4.67E+01	Yes
Mica	1.09E-04	8.24E-07	1.10E-04	4.80E-04	2.00E-01	Yes
Naphthalene	5.34E-01	1.42E-06	5.34E-01	2.34E+00	3.33E+00	Yes
Pentane	0.00E+00	2.55E-02	2.55E-02	2.65E-02	1.18E+02	Yes
Propionic Acid	1.51E-02	2.55E-06	1.51E-02	6.61E-02	2.00E+00	Yes
Silica Amorphous	1.67E-03	1.08E-05	1.68E-03	7.31E-03	6.67E-01	Yes
Silica Gel	1.12E-03	4.89E-06	1.13E-03	4.92E-03	6.67E-01	Yes
Silica Silicon Dioxide	2.35E-03	2.35E-07	2.35E-03	1.03E-02	6.70E-03	Yes
Stoddard Solvent Mineral Spirits	6.74E-01	2.25E-05	6.74E-01	2.95E+00	3.50E+01	Yes
1,2,4-Trimethyl Benzene	1.88E-01	0.00E+00	1.88E-01	8.24E-01	8.20E+00	Yes
VM&P Naphtha	2.20E-01	0.00E+00	2.20E-01	9.63E-01	9.13E+01	Yes
Metal HAP						
Antimony	1.86E-03	0.00E+00	1.86E-03	8.17E-03	3.30E-02	Yes
Arsenic	0.00E+00	4.66E-07	4.66E-07	4.84E-07	1.50E-06	Yes
Beryllium	0.00E+00	2.79E-08	2.79E-08	2.91E-08	2.80E-05	Yes
Cadmium	0.00E+00	2.56E-06	2.56E-06	2.66E-06	3.70E-06	Yes
Chromium III	5.63E-04	1.37E-05	5.77E-04	2.48E-03	3.30E-02	Yes
Cobalt	0.00E+00	8.24E-07	8.24E-07	8.56E-07	3.30E-03	Yes
Copper	0.00E+00	8.33E-06	8.33E-06	8.67E-06	1.30E-02	Yes
Manganese	0.00E+00	3.73E-06	3.73E-06	3.87E-06	6.70E-02	Yes
Mercury	0.00E+00	2.55E-06	2.55E-06	2.65E-06	3.00E-03	Yes
Molybdenum	0.00E+00	1.08E-05	1.08E-05	1.12E-05	3.33E-01	Yes
Nickel	0.00E+00	4.89E-06	4.89E-06	5.08E-06	2.70E-05	Yes
Selenium	0.00E+00	2.35E-07	2.35E-07	2.45E-07	1.30E-02	Yes
Vanadium	0.00E+00	2.25E-05	2.25E-05	2.35E-05	3.00E-03	Yes
Zinc	0.00E+00	2.84E-04	2.84E-04	2.96E-04	6.67E-01	Yes
Metal Non-HAP						
Aluminum	4.66E-01	0.00E+00	4.66E-01	2.04E+00	6.67E-01	Yes
Barium	2.60E-04	4.31E-05	3.03E-04	1.18E-03	3.30E-02	Yes
		HAP _{TOT}	2.28	9.99		
		HAP _{MAX}	0.58	2.55		

Assumptions when estimating spray booth heater emissions:

- Maximum heater size 10.00 MMBtu/hr
- Annual heater operation 2,080 hr/yr
- Fuel limited to natural gas only

Assumptions when estimating spray booth emissions:

- Maximum coating use rate: 4.00 gal/day for all coatings (excluding "B" component)
- Averaging period 24 hr/day average
- Annual booth operation 8,760 hr/yr
- Safety factor 1.20 allowance for coatings not analyzed
- Transfer efficiency 65% control for particulates
- Filter removal efficiency 98% control for particulates
- Isocyanate reaction factor 85% control for isocyanates
- Maximum coating density 16.76 lb/gal
- % of monomer in mixture 1% for diisocyanates in hardener mixture
- If no % of TAP was listed in the MSDS, then 1.0% was assumed

Assumptions when estimating spray booth MDI emissions from truck bed lining:

- Spray booth emissions were estimated referencing the equation and assumptions from Section 19.0 of the MDI/Polymeric MDI Emissions Reporting Guidelines for the Polyurethane Industry Alliance for the Polyurethanes Industry (API), 2004
- 100% of isocyanate content was MDI (K_{MDI} = 1.0).
- Spray booth filtration does not reduce or remove MDI (0% control efficiency).
- The combined spray and dry time to apply 4 gal of "iso" component is 4 hr or less
- Spray coatings are applied 365 days per year
- Spray coatings are applied at less than 9°F.

Assumptions when estimating additional VOC emissions from truck bed liner "B" component

- VOC from the "iso" component were accounted for within the analysis for the 4 gal/day limit
- Maximum "B" use rate 4.00 gal/day (1:1 by volume A:B mixture)
 - Safety factor 1.20 allowance for coatings not analyzed
 - Maximum coating density 8.83 lb/gal (from "Bed Liner B" sheet)
 - Averaging period 24 hr/day average
 - VOC emissions 1.77 lb/hr
 - B component does not contain HAP or TAP substances

Coating Nason Primers, Primer Surfacer, and Sealers

Content Weight %																			
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Acetone	Aromatic Hydrocarbon	Barium Sulfate	Butyl Acetate	n Butyl Alcohol	Carbon Black (particulate)	Ethyl Benzene (HAP)	Ethyl 3 Ethoxy Propionate	Ethyl Alcohol	Ethylene Glycol Monobutyl Ether	Heptane	Isopropyl Alcohol (IPA)	Methyl Amyl Ketone	Methyl Ethyl Ketone (MEK)(HAP)	Methyl Isobutyl Ketone (MIBK)(HAP)
421-05		49.01%			1.00%			1.00%	5.00%	1.00%	0.80%		1.00%						
421-08		56.62%			1.00%			1.00%		0.60%									
421-09		54.07%			1.00%			1.00%		0.50%						1.00%		1.00%	
421-15		52.89%			1.00%	1.00%		1.00%		0.30%	0.50%	1.00%			1.00%			1.00%	
421-17		62.36%			1.00%		1.00%	1.00%			5.90%								
421-18		67.04%			1.00%			1.00%			1.80%								
421-19		63.65%					1.00%	1.00%						6.00%			1.00%		
421-20		61.62%						1.00%		0.20%									
421-21		51.56%			1.00%		1.00%	1.00%		0.20%							1.00%		
421-23		58.92%					1.00%	1.00%		0.20%	2.70%					1.00%			
421-30		64.77%			1.00%				2.00%	0.20%	0.40%	1.00%				1.00%			
421-40		53.78%			1.00%			1.00%										1.00%	1.00%

Content lb/gal																			
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Acetone	Aromatic Hydrocarbon	Barium Sulfate	Butyl Acetate	n Butyl Alcohol	Carbon Black (particulate)	Ethyl Benzene (HAP)	Ethyl 3 Ethoxy Propionate	Ethyl Alcohol	Ethylene Glycol Monobutyl Ether	Heptane	Isopropyl Alcohol (IPA)	Methyl Amyl Ketone	Methyl Ethyl Ketone (MEK)(HAP)	Methyl Isobutyl Ketone (MIBK)(HAP)
421-05	9.52	4.67	0.74	0.38	0.10	0.00	0.00	0.10	0.48	0.10	0.08	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
421-08	10.28	5.82	0.82	0.82	0.00	0.00	0.00	0.10	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
421-09	9.94	5.37	0.99	0.89	0.10	0.00	0.00	0.10	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.10	0.00
421-15	9.94	5.26	0.55	0.20	0.10	0.10	0.00	0.10	0.00	0.03	0.05	0.10	0.00	0.00	0.10	0.00	0.00	0.10	0.00
421-17	11.88	7.41	3.43	2.49	0.00	0.00	0.12	0.12	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
421-18	13.83	9.27	1.22	0.97	0.14	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
421-19	12.08	7.69	2.54	2.54	0.00	0.00	0.12	0.12	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.12	0.00	0.00
421-20	11.62	7.16	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
421-21	12.32	6.35	0.00	0.00	0.12	0.00	0.12	0.12	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00
421-23	11.15	6.57	3.20	1.78	0.00	0.00	0.11	0.00	0.00	0.02	0.30	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00
421-30	10.91	7.07	0.15	0.11	0.11	0.00	0.00	0.00	0.22	0.02	0.04	0.11	0.00	0.00	0.00	0.11	0.00	0.00	0.00
421-40	10.24	5.51	3.07	2.87	0.10	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10
Maximum (lb/gal)	13.83	9.27	3.43	2.87	0.14	0.10	0.12	0.12	0.48	0.10	0.70	0.11	0.10	0.72	0.10	0.11	0.12	0.10	0.10
Emission Rate (lb/hr)		1.3E 02	6.9E 01	5.7E 01	2.8E 02	2.0E 02	2.5E 02	2.5E 02	9.5E 02	1.3E 04	1.4E 01	2.2E 02	1.9E 02	1.4E 01	2.0E 02	2.2E 02	2.5E 02	2.0E 02	2.0E 02
IDAPA TAP EL (lb/hr)					1.19E+02			4.73E+01	1.00E+01	2.3E-01	2.90E+01		1.25E+02		1.09E+02	6.53E+01	1.57E+01	3.93E+01	1.37E+01
Below EL?					Yes			Yes	Yes	Yes	Yes		Yes		Yes	Yes	Yes	Yes	Yes

Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating Nason Primers, Primer Surfacer, and Sealers

Content Weight %											
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Phosphoric Acid Aluminum Salt (particulate)	Silica Silicon Dioxide (particulate)	Styrene (HAP)	Toluene (HAP)	VM&P Naphtha	Xylene (HAP)	
421-05		49.01%				1.00%		4.00%		3.00%	
421-08		56.62%						8.00%			
421-09		54.07%						9.00%			
421-15		52.89%				6.50%		2.00%		2.00%	
421-17		62.36%						2.00%		21.00%	
421-18		67.04%			1.00%	0.20%				7.00%	
421-19		63.65%								21.00%	
421-20		61.62%				0.30%					
421-21		51.56%				0.10%					
421-23		58.92%						16.00%		10.00%	
421-30		64.77%								1.00%	
421-40		53.78%					28.00%		1.00%		

Content lb/gal											
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Phosphoric Acid Aluminum Salt (particulate)	Silica Silicon Dioxide (particulate)	Styrene (HAP)	Toluene (HAP)	VM&P Naphtha	Xylene (HAP)	
421-05	9.52	4.67	0.74	0.38	0.00	0.10	0.00	0.38	0.00	0.29	
421-08	10.28	5.82	0.82	0.82	0.00	0.00	0.00	0.82	0.00	0.00	
421-09	9.94	5.37	0.99	0.89	0.00	0.00	0.00	0.89	0.00	0.00	
421-15	9.94	5.26	0.85	0.20	0.00	0.65	0.00	0.20	0.00	0.20	
421-17	11.88	7.41	3.43	2.49	0.00	0.00	0.00	0.24	0.00	2.49	
421-18	13.83	9.27	1.22	0.97	0.14	0.03	0.00	0.00	0.00	0.97	
421-19	12.08	7.69	2.54	2.54	0.00	0.00	0.00	0.00	0.00	2.54	
421-20	11.62	7.16	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	
421-21	12.32	6.35	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	
421-23	11.15	6.57	3.20	1.78	0.00	0.00	0.00	1.78	0.00	1.12	
421-30	10.91	7.07	0.15	0.11	0.00	0.00	0.00	0.00	0.00	0.11	
421-40	10.24	5.51	3.07	2.87	0.00	0.00	2.87	0.00	0.10	0.00	
Maximum (lb/gal)	13.83	9.27	3.43	2.87	0.14	0.65	2.87	1.78	0.10	2.54	
Emission Rate (lb/hr)		1.3E 02	6.9E 01	5.7E 01	1.9E 04	9.0E 04	5.7E 01	3.6E 01	2.0E 02	5.1E 01	
IDAPA TAP EL (lb/hr)					6.70E-02	6.70E-03	6.67E+00	2.50E+01	9.13E+01	2.90E+01	
Below EL?					Yes	Yes	Yes	Yes	Yes	Yes	

Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating Nason Factory Packaged Colors

Content Weight %																						
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Acetone	Aromatic Hydrocarbon	Barium Sulfate	Butyl Acetate	Carbon Black (particulate)	Ethyl Benzene (HAP)	Ethyl 3 Ethoxy Propionate	Ethylene Glycol Monobutyl Ether	Methyl Amyl Ketone	Methyl Ethyl Ketone (MEK)(HAP)	Methyl Isobutyl Ketone (MIBK)(HAP)	Naphthalene (HAP)	Silica Silicon Dioxide (particulate)	Stoddard Solvent Mineral Spirits	Toluene (HAP)	VM&P Naphtha	Xylene (HAP)	
422-23		33.61%			1.00%	1.00%		1.00%	0.60%	0.80%	1.00%		1.00%				2.30%		3.00%		3.00%	
422-28		72.31%			1.00%	1.00%			2.20%	0.30%			1.00%			0.30%			1.00%		1.00%	
422-33		76.92%							2.10%	1.00%					9.00%						4.00%	
422-46		64.87%						1.00%	1.40%	0.40%		1.00%			12.00%			1.00%		4.00%	1.00%	
422-48		61.17%					1.00%	1.00%		5.10%			1.00%	1.00%					1.00%		18.00%	
Content lb/gal																						
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Acetone	Aromatic Hydrocarbon	Barium Sulfate	Butyl Acetate	Carbon Black (particulate)	Ethyl Benzene (HAP)	Ethyl 3 Ethoxy Propionate	Ethylene Glycol Monobutyl Ether	Methyl Amyl Ketone	Methyl Ethyl Ketone (MEK)(HAP)	Methyl Isobutyl Ketone (MIBK)(HAP)	Naphthalene (HAP)	Silica Silicon Dioxide (particulate)	Stoddard Solvent Mineral Spirits	Toluene (HAP)	VM&P Naphtha	Xylene (HAP)	
422-23	8.24	2.77	0.56	0.25	0.08	0.08	0.00	0.08	0.05	0.07	0.08	0.00	0.08	0.00	0.00	0.00	0.19	0.00	0.25	0.00	0.00	0.25
422-28	10.57	7.64	1.23	0.95	0.11	0.11	0.00	0.00	0.23	0.03	0.00	0.00	0.11	0.00	0.95	0.03	0.00	0.00	0.11	0.00	0.00	0.11
422-33	11.47	8.82	1.95	1.38	0.00	0.00	0.00	0.00	0.24	0.11	0.00	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.46
422-46	10.30	6.68	0.56	0.41	0.00	0.00	0.00	0.10	0.14	0.04	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.10	0.41	0.10	0.10	0.10
422-48	10.82	6.62	2.72	1.95	0.00	0.00	0.11	0.11	0.00	0.55	0.00	0.00	0.11	0.11	0.00	0.00	0.00	0.00	0.11	0.00	0.00	1.95
Maximum (lb/gal)	11.47	8.82	2.72	1.95	0.11	0.11	0.11	0.11	0.24	0.55	0.08	0.10	0.11	0.11	1.38	0.03	0.19	0.10	0.41	0.10	0.10	1.95
Emission Rate (lb/hr)		1.2E 02	5.4E 01	3.9E 01	2.1E 02	2.1E 02	2.2E 02	2.2E 02	3.4E 04	1.1E 01	1.6E 02	2.1E 02	2.2E 02	2.2E 02	2.8E 01	6.3E 03	2.7E 04	2.1E 02	8.2E 02	2.1E 02	3.9E 01	
IDAPA TAP EL (lb/hr)					1.19E+02			4.73E+01	2.3E-01	2.90E+01			1.57E+01	3.93E+01	1.37E+01	3.33E+00	6.70E-03	3.50E+01	2.50E+01	9.13E+01	2.90E+01	
Below EL?					Yes			Yes	Yes	Yes			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)																			
4.00	24	65.00%	98.00%																			
Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)																				
85.00%	1,460.0	1.20																				

Coating Nason Tints, Toners, and Binders

Content Weight %																			
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Aromatic Hydrocarbon	Barium Sulfate	Butyl Acetate	Carbon Black (particulate)	Ethyl Benzene (HAP)	Ethyl 3 Ethoxy Propionate	Ethylene Glycol Monobutyl Ether	Heptane	Naphthalene (HAP)	Stoddard Solvent Mineral Spirits	Toluene (HAP)	1,2,4 Trimethyl Benzene	VM&P Naphtha	Xylene (HAP)	
430-01		44.25%			1.00%		1.00%	6.60%	0.60%										2.00%
430-02		40.95%			1.00%		1.00%	1.30%	0.50%			1.00%	0.40%		4.00%				2.00%
430-03		74.89%			1.00%		1.00%		0.70%						5.00%		1.00%		2.00%
430-04		60.77%			1.00%		1.00%		0.60%			1.00%			2.00%		1%		2.00%
430-05		48.64%			1.00%		1.00%		5.80%				0.40%		3.00%		1%		21.00%
430-06		44.34%			1.00%		1.00%		3.30%			1.00%	0.40%		4.00%		1%		12.00%
430-07		51.19%			1.00%		1.00%		1.10%				0.20%				1%		4.00%
430-08		49.09%			1.00%		1.00%		1.40%			1.00%	0.40%		5.00%		1%		5.00%
430-09		51.31%			1.00%		1.00%		4.90%									1%	18.00%
430-10		49.80%			1.00%		1.00%		0.50%				0.40%		2.00%		1%		2.00%
430-11		43.37%			1.00%		1.00%		0.50%			1.00%	0.40%		2.00%		1%		2.00%
430-12		52.71%			1.00%		1.00%		0.60%				0.30%				1%		2.00%
430-13		46.56%			1.00%		1.00%		0.60%			1.00%	0.30%		4.00%		1%		2.00%
430-14		40.53%			1.00%		1.00%		0.60%			1.00%	0.40%		5.00%		1%		2.00%
430-15		42.39%			1.00%		1.00%		0.70%			1.00%	0.50%		5.00%		1%		3.00%
430-16		48.65%			1.00%		1.00%		0.70%			1.00%	0.40%		4.00%		1%		2.00%
430-17		50.93%			1.00%		1.00%		0.50%				0.30%				1%		2.00%
430-18		53.26%			1.00%		1.00%		0.60%				0.30%				1%		2.00%
430-19		54.70%			1.00%		1.00%		0.50%				0.30%		2.00%		1%		2.00%
430-20		51.75%			1.00%		1.00%		0.60%			1.00%	0.30%		2.00%		1%		2.00%
430-21		44.90%			1.00%		1.00%		0.50%			1.00%	0.40%		2.00%		1%		2.00%
430-22		51.24%			1.00%	1.00%	1.00%		0.60%				0.30%		2.00%		1%		2.00%
430-23		50.94%			1.00%	1.00%	1.00%		0.70%			1.00%	0.40%		4.00%		1%		3.00%
430-24		51.17%			1.00%	1.00%	1.00%		0.50%				0.20%				1%		2.00%
430-25		48.38%			1.00%		1.00%		0.60%			1.00%	0.40%		2.00%		1%		2.00%
430-26		56.66%			1.00%		1.00%		0.50%								1%		2.00%
430-27		53.83%			1.00%		1.00%		0.50%			1.00%	0.40%		2.00%		1%		2.00%
430-28		53.31%			1.00%		1.00%		0.50%		2.00%				5.00%		1%		2.00%
430-29		53.11%			1.00%		1.00%		0.50%		0.20%		0.20%		5.00%		1%		2.00%
430-30		43.95%			1.00%		1.00%		0.50%			1.00%		1.00%	4.00%		1%		2.00%
430-31		44.96%			1.00%		1.00%		0.50%			1.00%		1.00%	4.00%		1%		2.00%
430-32		45.72%			1.00%		1.00%		0.40%			1.00%			3.00%		1%		2.00%
430-33		46.88%			1.00%		1.00%		0.50%			1.00%			4.00%		1%		2.00%
430-34		45.57%			1.00%		1.00%		1.00%			1.00%			4.00%	1.00%	1%		4.00%
430-35		47.16%			1.00%		1.00%		1.00%			1.00%			4.00%		1%		4.00%
430-36		52.81%			1.00%		1.00%		0.50%				0.40%		2.00%		1%		2.00%
430-37		46.95%			1.00%		1.00%		0.60%			1.00%	0.30%		4.00%		1%		2.00%
430-38		45.07%			1.00%		1.00%		0.50%			1.00%	0.40%		2.00%		1%		2.00%
430-39		41.25%			1.00%		1.00%		0.50%			1.00%	0.20%		1.00%		1%		2.00%
430-40		40.98%			1.00%		1.00%		0.40%			1.00%	0.20%		7.00%		1%		2.00%
430-41		47.84%			1.00%		1.00%		0.50%	1.00%			0.20%		2.00%		1%		2.00%
430-42		50.12%			1.00%		1.00%		1.20%				0.40%				1%		4.00%
430-43		42.85%			1.00%		1.00%		0.50%				0.40%		2.00%		1%		2.00%
430-44		45.36%			1.00%		1.00%		0.50%				0.40%		3.00%		1%		2.00%
430-45		46.84%			1.00%	1.00%	1.00%		0.30%								1%		1.00%
430-46		48.85%			1.00%		1.00%		1.30%				0.40%		3.00%		1%		5.00%
430-47		49.62%			1.00%		1.00%		0.40%		1.00%		0.30%		7.00%		1%		2.00%
430-48		45.30%			1.00%		1.00%		1.00%			1.00%		1.00%	4.00%		1%		4.00%
430-49		44.68%			1.00%		1.00%		0.50%			1.00%		1.00%	3.00%		1%		2.00%
430-50		56.01%			1.00%		1.00%		0.50%		2.00%	1.00%	0.20%	1.00%	6.00%		1%		2.00%
430-51		51.59%			1.00%		1.00%		0.40%		1.00%		0.30%		8.00%		1%		2.00%
430-52		34.84%			1.00%		1.00%		7.90%								1%		28.00%
430-53		55.78%			1.00%		1.00%		0.80%								1%		3.00%
430-54		54.11%			1.00%		1.00%		0.50%		2.00%		0.20%				1%		2.00%
430-55		47.70%			1.00%		1.00%		0.80%			1.00%			3.00%		1%		3.00%
430-56		52.74%			1.00%		1.00%		0.60%				0.30%				1%		2.00%

Coating Nason Tints, Toners, and Binders

Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Aromatic Hydrocarbon	Barium Sulfate	Butyl Acetate	Carbon Black (particulate)	Ethyl Benzene (HAP)	Ethyl 3 Ethoxy Propionate	Ethylene Glycol Monobutyl Ether	Heptane	Naphthalene (HAP)	Stoddard Solvent Mineral Spirits	Toluene (HAP)	1,2,4 Trimethyl Benzene	VM&P Naphtha	Xylene (HAP)
430-01	8.14	3.60	0.57	0.33	0.08	0.00	0.08	0.54	0.05	0.00	0.00	0.00	0.03	0.00	0.33	0.00	0.08	0.16
430-02	7.94	3.25	0.64	0.40	0.08	0.00	0.08	0.10	0.04	0.00	0.00	0.08	0.04	0.00	0.40	0.00	0.08	0.16
430-03	13.30	9.96	0.36	0.27	0.00	0.00	0.13	0.06	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27
430-04	10.47	6.36	0.48	0.21	0.00	0.00	0.10	0.00	0.06	0.00	0.00	0.10	0.00	0.00	0.21	0.00	0.10	0.21
430-05	8.85	4.30	2.67	1.86	0.09	0.00	0.09	0.00	0.51	0.00	0.00	0.09	0.04	0.00	0.27	0.00	0.09	1.86
430-06	8.35	3.70	1.64	1.00	0.08	0.00	0.08	0.00	0.28	0.00	0.00	0.08	0.03	0.00	0.33	0.00	0.08	1.00
430-07	9.10	4.66	0.48	0.36	0.09	0.00	0.09	0.00	0.10	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.09	0.36
430-08	8.81	4.32	1.04	0.44	0.09	0.00	0.09	0.00	0.12	0.00	0.00	0.09	0.04	0.00	0.44	0.00	0.09	0.44
430-09	9.20	4.72	2.11	1.66	0.00	0.00	0.09	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	1.66
430-10	8.43	4.20	0.41	0.17	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.00	0.03	0.00	0.17	0.00	0.08	0.17
430-11	8.19	3.55	0.40	0.16	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.00	0.03	0.00	0.16	0.00	0.08	0.16
430-12	8.50	4.48	0.25	0.17	0.09	0.00	0.09	0.00	0.05	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.09	0.17
430-13	8.30	3.86	0.57	0.33	0.08	0.00	0.08	0.00	0.05	0.00	0.00	0.08	0.02	0.00	0.33	0.00	0.08	0.17
430-14	7.95	3.22	0.64	0.40	0.08	0.00	0.08	0.00	0.05	0.00	0.00	0.08	0.03	0.00	0.40	0.00	0.08	0.16
430-15	7.97	3.38	0.73	0.40	0.08	0.00	0.08	0.00	0.06	0.00	0.00	0.08	0.04	0.00	0.40	0.00	0.08	0.24
430-16	8.66	4.21	0.61	0.35	0.09	0.00	0.09	0.00	0.06	0.00	0.00	0.09	0.03	0.00	0.35	0.00	0.09	0.17
430-17	8.62	4.39	0.24	0.17	0.09	0.00	0.09	0.00	0.04	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.09	0.17
430-18	8.60	4.58	0.25	0.17	0.09	0.00	0.09	0.00	0.05	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.09	0.17
430-19	8.65	4.73	0.42	0.17	0.09	0.00	0.09	0.00	0.04	0.00	0.00	0.00	0.03	0.00	0.17	0.00	0.09	0.17
430-20	8.55	4.42	0.42	0.17	0.09	0.00	0.09	0.00	0.05	0.00	0.00	0.00	0.03	0.00	0.17	0.00	0.09	0.17
430-21	8.16	3.66	0.40	0.16	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.00	0.03	0.00	0.16	0.00	0.08	0.16
430-22	8.54	4.38	0.42	0.17	0.09	0.00	0.09	0.00	0.05	0.00	0.00	0.00	0.03	0.00	0.17	0.00	0.09	0.17
430-23	8.48	4.32	0.69	0.34	0.08	0.00	0.08	0.00	0.06	0.00	0.00	0.08	0.03	0.00	0.34	0.00	0.08	0.25
430-24	8.44	4.32	0.23	0.17	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.08	0.17
430-25	8.35	4.04	0.42	0.17	0.08	0.00	0.08	0.00	0.05	0.00	0.00	0.08	0.03	0.00	0.17	0.00	0.08	0.17
430-26	8.82	5.00	0.22	0.18	0.00	0.00	0.09	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.18
430-27	8.78	4.73	0.43	0.18	0.09	0.00	0.09	0.00	0.04	0.00	0.00	0.09	0.04	0.00	0.18	0.00	0.09	0.18
430-28	9.22	4.92	0.69	0.46	0.09	0.00	0.09	0.00	0.05	0.00	0.18	0.00	0.00	0.00	0.46	0.00	0.09	0.18
430-29	9.26	4.92	0.71	0.46	0.09	0.00	0.09	0.00	0.05	0.00	0.02	0.00	0.02	0.00	0.46	0.00	0.09	0.19
430-30	8.07	3.55	0.52	0.32	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.08	0.00	0.00	0.32	0.00	0.08	0.16
430-31	8.10	3.64	0.53	0.32	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.08	0.16
430-32	8.21	3.75	0.44	0.25	0.00	0.00	0.08	0.00	0.03	0.00	0.00	0.08	0.00	0.00	0.25	0.00	0.08	0.16
430-33	8.32	3.90	0.54	0.33	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.08	0.00	0.00	0.33	0.00	0.08	0.17
430-34	8.35	3.81	0.75	0.33	0.08	0.00	0.08	0.00	0.08	0.00	0.00	0.08	0.00	0.00	0.33	0.08	0.08	0.33
430-35	8.42	3.97	0.76	0.34	0.00	0.00	0.08	0.00	0.08	0.00	0.00	0.08	0.00	0.00	0.34	0.00	0.08	0.34
430-36	8.51	4.49	0.42	0.17	0.09	0.00	0.09	0.00	0.04	0.00	0.00	0.00	0.03	0.00	0.17	0.00	0.09	0.17
430-37	8.25	3.87	0.57	0.33	0.08	0.00	0.08	0.00	0.05	0.00	0.00	0.08	0.02	0.00	0.33	0.00	0.08	0.17
430-38	8.12	3.66	0.40	0.16	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.08	0.03	0.00	0.16	0.00	0.08	0.16
430-39	8.00	3.30	0.30	0.16	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.08	0.02	0.00	0.08	0.00	0.08	0.16
430-40	7.87	3.23	0.76	0.55	0.08	0.00	0.08	0.00	0.03	0.08	0.00	0.08	0.02	0.00	0.55	0.00	0.08	0.16
430-41	8.37	4.00	0.23	0.17	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.08	0.17
430-42	8.44	4.23	0.47	0.34	0.08	0.00	0.08	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.08	0.34
430-43	8.15	3.49	0.40	0.16	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.00	0.03	0.00	0.16	0.00	0.08	0.16
430-44	8.23	3.73	0.49	0.25	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.00	0.03	0.00	0.25	0.00	0.08	0.16
430-45	8.37	3.92	0.11	0.08	0.00	0.08	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08
430-46	8.39	4.10	0.81	0.42	0.08	0.00	0.08	0.00	0.11	0.00	0.00	0.00	0.03	0.00	0.25	0.00	0.08	0.42
430-47	8.72	4.33	0.85	0.61	0.09	0.00	0.09	0.00	0.03	0.00	0.09	0.00	0.03	0.00	0.61	0.00	0.09	0.17
430-48	8.34	3.78	0.75	0.33	0.00	0.00	0.08	0.00	0.08	0.00	0.00	0.08	0.00	0.00	0.33	0.00	0.08	0.33
430-49	8.13	3.63	0.45	0.24	0.00	0.00	0.08	0.00	0.04	0.00	0.00	0.08	0.00	0.00	0.24	0.00	0.08	0.16
430-50	9.52	5.33	0.83	0.57	0.10	0.00	0.10	0.00	0.05	0.00	0.19	0.10	0.02	0.10	0.57	0.00	0.10	0.19
430-51	8.92	4.60	0.95	0.71	0.09	0.00	0.09	0.00	0.04	0.00	0.09	0.00	0.03	0.00	0.71	0.00	0.09	0.18
430-52	7.96	2.77	2.86	2.23	0.00	0.00	0.08	0.00	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	2.23
430-53	10.51	5.86	0.40	0.32	0.00	0.00	0.11	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.32
430-54	9.32	5.04	0.25	0.19	0.09	0.00	0.09	0.00	0.05	0.00	0.19	0.00	0.02	0.00	0.00	0.00	0.09	0.19
430-55	8.79	4.19	0.60	0.26	0.09	0.00	0.09	0.00	0.07	0.00	0.00	0.09	0.00	0.00	0.26	0.00	0.09	0.26
430-56	8.54	4.50	0.25	0.17	0.09	0.00	0.09	0.00	0.05	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.09	0.17
Maximum (lb/gal)	13.30	9.96	2.86	2.23	0.10	0.09	0.13	0.54	0.63	0.08	0.19	0.10	0.04	0.10	0.71	0.08	0.11	2.23

Emission Rate (lb/hr)	1.4E 02	5.7E 01	4.5E 01	1.9E 02	1.7E 02	2.7E 02	7.5E 04	1.3E 01	1.6E 02	3.8E 02	2.1E 02	8.0E 03	1.9E 02	1.4E 01	1.7E 02	2.1E 02	4.5E 01
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IDAPA TAP EL (lb/hr)							4.73E+01	2.3E-01	2.90E+01			1.09E+02	3.33E+00	3.50E+01	2.50E+01	8.20E+00	9.13E+01	2.90E+01
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Below EL?							Yes	Yes	Yes			Yes	Yes	Yes	Yes	Yes	Yes	Yes
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Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating Nason Activators, Reducers, Solvents, and Additives

Content Weight %																			
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Acetone	Aromatic Hydrocarbon	Butyl Acetate	n Butyl Alcohol	Cyclohexane	Ethyl Benzene (HAP)	Ethyl 3 Ethoxy Propionate	Ethyl Alcohol	Ethylene Glycol Monobutyl Ether	Heptane	n Hexane (HAP)	Isopropyl Alcohol (IPA)	Methyl Amyl Ketone	Methyl Ethyl Ketone (MEK)(HAP)	Naphthalene (HAP)
441-00		0.00%				1.00%				1.00%				1.00%	1.00%	1.00%			0.60%
441-01		0.00%				2.00%				0.20%			2.00%	1.00%	1.00%	1.00%			40.00%
441-02		0.00%				1.00%			1.00%					1.00%	2.00%	1.00%			0.50%
441-05		0.00%				1.00%								1.00%	1.00%				0.20%
441-20		0.00%			1.00%					0.60%	1.00%			1.00%	1.00%				
441-21		0.00%			1.00%			1.00%		1.30%	1.00%			1.00%	1.00%				
441-22		0.00%			1.00%	1.00%		1.00%					8.00%	1.00%	1.00%				
441-29		0.00%						1.00%					12.00%					1.00%	
441-43		2.23%							80.00%		1.00%	1.00%							
441-49		0.00%											20.00%						
441-60		0.00%			1.00%														
441-62		0.00%						1.00%									1.00%		
441-66		0.00%						1.00%											
441-72		0.00%			1.00%				1.00%					1.00%					

Content lb/gal																			
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Acetone	Aromatic Hydrocarbon	Butyl Acetate	n Butyl Alcohol	Cyclohexane	Ethyl Benzene (HAP)	Ethyl 3 Ethoxy Propionate	Ethyl Alcohol	Ethylene Glycol Monobutyl Ether	Heptane	n Hexane (HAP)	Isopropyl Alcohol (IPA)	Methyl Amyl Ketone	Methyl Ethyl Ketone (MEK)(HAP)	Naphthalene (HAP)
441-00		0.00	1.00	0.83	0.00	0.06	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.06	0.06	0.06	0.00	0.00	0.04
441-01		0.00	3.49	2.67	0.00	0.13	0.00	0.00	0.00	0.01	0.00	0.00	0.13	0.00	0.00	0.07	0.00	0.00	2.67
441-02		0.00	1.10	0.94	0.00	0.06	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.06	0.13	0.06	0.00	0.00	0.03
441-05		0.00	0.49	0.45	0.00	0.06	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.01
441-20		0.00	1.70	1.46	0.07	0.00	0.00	0.00	0.00	0.04	0.07	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00
441-21		0.00	1.56	1.07	0.07	0.00	0.07	0.00	0.00	0.09	0.07	0.00	0.00	0.07	0.07	0.00	0.00	0.00	0.00
441-22		0.00	1.11	1.04	0.07	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.55	0.07	0.07	0.00	0.00	0.00	0.00
441-29		0.00	1.21	0.67	0.00	0.00	0.07	0.00	0.00	0.10	0.07	0.00	0.89	0.00	0.00	0.00	0.00	0.07	0.00
441-43		0.15	0.00	0.00	0.00	0.00	0.00	5.49	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
441-49		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	1.59	0.00	0.00	0.00	0.00	0.00	0.00
441-60		0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
441-62		0.00	0.00	0.00	0.07	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
441-66		0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
441-72		0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00

Maximum (lb/gal)	8.75	0.15	3.49	2.67	0.09	0.13	0.07	5.49	0.06	0.10	0.08	0.07	1.59	0.07	0.13	0.07	0.07	0.07	2.67
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Emission Rate (lb/hr)		2.1E 04	7.0E 01	5.3E 01	1.8E 02	2.7E 02	1.5E 02	1.1E+00	1.3E 02	1.9E 02	1.6E 02	1.4E 02	3.2E 01	1.4E 02	2.5E 02	1.3E 02	1.3E 02	1.5E 02	5.3E 01
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IDAPA TAP EL (lb/hr)					1.19E+02	4.73E+01	1.00E+01	7.00E+01	2.90E+01			1.25E+02		1.09E+02	1.20E+01	6.53E+01	1.57E+01	3.93E+01	3.33E+00
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Below EL?					Yes		Yes	Yes	Yes	Yes		Yes		Yes	Yes	Yes	Yes	Yes	Yes
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Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating Nason Activators, Reducers, Solvents, and Additives

Content Weight %										
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Phosphoric Acid Aluminum Salt (particulate)	Stoddard Solvent Mineral Spirits	Toluene (HAP)	1,2,4 Trimethyl Benzene	VM&P Naphtha	Xylene (HAP)
441-00		0.00%				1.00%	13.00%			
441-01		0.00%				1.00%	12.00%	1.00%		
441-02		0.00%				1.00%	15.00%		1%	
441-05		0.00%				1.00%	7.00%	0.20%		
441-20		0.00%					22.00%			2.00%
441-21		0.00%					16.00%			5.00%
441-22		0.00%					15.00%	2.00%		
441-29		0.00%					9.00%		1.00%	5.00%
441-43		2.23%			1.00%					
441-49		0.00%								
441-60		0.00%								
441-62		0.00%								
441-66		0.00%								
441-72		0.00%								

Content lb/gal										
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Phosphoric Acid Aluminum Salt (particulate)	Stoddard Solvent Mineral Spirits	Toluene (HAP)	1,2,4 Trimethyl Benzene	VM&P Naphtha	Xylene (HAP)
441-00	6.42	0.00	1.00	0.83	0.00	0.06	0.83	0.00	0.00	0.00
441-01	6.68	0.00	3.49	2.67	0.00	0.07	0.80	0.07	0.00	0.00
441-02	6.28	0.00	1.10	0.94	0.00	0.06	0.94	0.00	0.06	0.00
441-05	6.49	0.00	0.49	0.45	0.00	0.06	0.45	0.01	0.00	0.00
441-20	6.63	0.00	1.70	1.46	0.00	0.00	1.46	0.00	0.00	0.13
441-21	6.71	0.00	1.56	1.07	0.00	0.00	1.07	0.00	0.00	0.34
441-22	6.91	0.00	1.11	1.04	0.00	0.00	1.04	0.14	0.00	0.00
441-29	7.40	0.00	1.21	0.67	0.00	0.00	0.67	0.00	0.07	0.37
441-43	6.86	0.15	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00
441-49	7.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
441-60	6.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
441-62	6.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
441-66	8.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
441-72	6.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Maximum (lb/gal)	8.75	0.15	3.49	2.67	0.07	0.07	1.46	0.14	0.07	0.37
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Emission Rate (lb/hr)	2.1E 04	7.0E 01	5.3E 01	9.6E 05	1.3E 02	2.9E 01	2.8E 02	1.5E 02	7.4E 02
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IDAPA TAP EL (lb/hr)				6.70E-02	3.50E+01	2.50E+01	8.20E+00	9.13E+01	2.90E+01
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Below EL?				Yes	Yes	Yes	Yes	Yes	Yes
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Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating: Imron® Activators, Reducers, Solvents, and Additives

Content Weight %																						
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Acetone	Aluminum	Antimony & Compounds (particulate) (HAP)	Aromatic Hydrocarbon	Barium (soluble) (particulate)	Butyl Acetate	n Butyl Alcohol	Carbon Black (particulate)	Chromium III (particulate) (HAP)	Ethyl Benzene (HAP)	Ethyl Acetate	Methyl Amyl Ketone	Propylene Glycol Monomethyl Ether Acetate	Silica Amorphous (particulate)	Stoddard Solvent Mineral Spirits	Toluene (HAP)	1,2,4 Trimethyl Benzene	VM&P Naphtha
500S (clear)		31.60%			1.00%									0.20%			1.00%					
520U		47.75%				10.00%					3.00%			1.10%			1.00%			1.00%		
521U		49.43%				14.00%		1.00%		1.00%	3.00%			1.10%			1.00%			1.00%		
522U		51.06%				25.00%		1.00%		1.00%	2.00%			1.00%			1.00%			1.00%		
523U		46.94%				11.00%		1.00%			3.00%						1.00%					4.00%
531U		35.15%										0.10%		0.20%	1.00%		1.00%			1.00%	3.00%	
532U		57.19%					5.00%							0.10%	1.00%		1.00%			1.00%	3.00%	
533U		38.86%												0.20%	1.00%		1.00%			1.00%	4.00%	
534U		42.63%												0.20%	1.00%		1.00%			1.00%	11.00%	
535U		37.08%								1.00%		1.50%		0.90%	1.00%		1.00%			1.00%	3.00%	
536U		43.28%												0.20%	1.00%		1.00%			1.00%	3.00%	
537U		49.16%					9.00%						4.00%	2.00%	1.00%		1.00%			1.00%	4.00%	
539U		42.81%												0.20%	1.00%		1.00%			1.00%	4.00%	
540U		42.62%												0.20%	1.00%		1.00%			1.00%	4.00%	
541U		43.60%							1.00%					0.30%	1.00%		1.00%			1.00%	4.00%	
543U		42.47%												0.20%	1.00%		1.00%			1.00%	4.00%	
544U		41.77%												0.20%	1.00%		1.00%			1.00%	7.00%	
547U		57.18%					0.90%		1.00%					0.10%	1.00%		1.00%			1.00%	2.00%	
548U		49.64%												0.20%	1.00%		1.00%			1.00%	2.00%	
550U		37.06%				2.00%								1.00%	1.00%		1.00%			1.00%	3.00%	1.00%
553U		37.91%												0.20%	1.00%		1.00%			1.00%	3.00%	
554U		52.95%												0.10%	1.00%		1.00%	1.00%		1.00%	3.00%	
555U		54.20%												0.10%	1.00%		1.00%	1.00%		1.00%	3.00%	
556U		47.54%												0.20%	1.00%		1.00%	1.00%		1.00%	3.00%	
557U		38.14%												0.40%	1.00%		1.00%			1.00%	3.00%	
558U		36.49%												0.20%	1.00%		1.00%			1.00%	3.00%	
559U		38.01%												0.50%	1.00%	1.00%	1.00%			1.00%	3.00%	
560U		46.33%												0.20%	1.00%		1.00%			1.00%	3.00%	
561U		38.52%								1.00%				0.80%	1.00%		1.00%			1.00%	3.00%	
563U		38.03%								1.00%				1.30%	1.00%		1.00%			1.00%	2.00%	1.00%
564U		36.59%												0.20%	1.00%		1.00%			1.00%	3.00%	1.00%
565U		36.42%												0.20%	1.00%		1.00%			1.00%	3.00%	
567U		35.81%												0.20%	1.00%		1.00%			1.00%	3.00%	
568U		37.82%												0.20%	1.00%		1.00%			1.00%	3.00%	
570U		56.47%								1.00%				0.20%	1.00%	1.00%	1.00%			1.00%	3.00%	
571U		35.00%												0.10%	1.00%		1.00%			1.00%	3.00%	1.00%
572U		35.44%												0.10%	1.00%		1.00%			1.00%	5.00%	1.00%

Content lb/gal																						
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Acetone	Aluminum	Antimony & Compounds (particulate) (HAP)	Aromatic Hydrocarbon	Barium (soluble) (particulate)	Butyl Acetate	n Butyl Alcohol	Carbon Black (particulate)	Chromium III (particulate) (HAP)	Ethyl Benzene (HAP)	Ethyl Acetate	Methyl Amyl Ketone	Propylene Glycol Monomethyl Ether Acetate	Silica Amorphous (particulate)	Stoddard Solvent Mineral Spirits	Toluene (HAP)	1,2,4 Trimethyl Benzene	VM&P Naphtha
500S (clear)	8.25	2.61	0.26	0.25	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.08	0.00	0.00	0.25	0.00	0.00
520U	8.64	4.13	0.44	0.35	0.00	0.86	0.00	0.09	0.00	0.00	0.26	0.00	0.00	0.10	0.00	0.00	0.09	0.00	0.09	0.00	0.00	0.00
521U	8.74	4.32	0.45	0.35	0.00	1.22	0.00	0.00	0.00	0.09	0.26	0.00	0.00	0.10	0.00	0.00	0.09	0.00	0.09	0.00	0.00	0.00
522U	9.32	4.76	0.00	0.00	0.00	2.33	0.00	0.09	0.00	0.09	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00
523U	8.62	4.05	0.44	0.34	0.00	0.95	0.00	0.09	0.00	0.00	0.26	0.00	0.00	0.09	0.00	0.00	0.09	0.00	0.09	0.00	0.00	0.00
531U	8.36	2.94	0.27	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.08	0.00	0.08	0.00	0.00	0.25	0.00	0.00
532U	11.18	6.39	0.91	0.56	0.00	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.11	0.00	0.11	0.00	0.00	0.34	0.00	0.00
533U	8.60	3.34	0.36	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.00	0.09	0.00	0.00	0.34	0.00	0.00
534U	8.69	3.70	0.97	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.00	0.09	0.00	0.00	0.96	0.00	0.00
535U	8.32	3.09	0.57	0.25	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.12	0.00	0.07	0.08	0.00	0.08	0.00	0.00	0.25	0.00	0.00
536U	9.29	4.02	0.30	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.00	0.09	0.00	0.00	0.28	0.00	0.00
537U	10.06	4.95	1.91	0.91	0.00	0.00	0.91	0.00	0.00	0.00	0.00	0.40	0.20	0.10	0.00	0.10	0.00	0.00	0.00	0.40	0.00	0.00
539U	8.77	3.75	0.37	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.00	0.09	0.00	0.00	0.35	0.00	0.00
540U	8.71	3.71	0.37	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.00	0.09	0.00	0.00	0.35	0.00	0.00
541U	8.93	3.89	0.47	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.09	0.00	0.09	0.00	0.00	0.36	0.00	0.00
543U	8.84	3.75	0.37	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.00	0.09	0.00	0.00	0.35	0.00	0.00
544U	8.60	3.59	0.62	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.00	0.09	0.00	0.00	0.60	0.00	0.00
547U	11.50	6.58	0.35	0.23	0.00	0.00	0.10	0.00	0.12	0.00	0.00	0.00	0.00	0.01	0.12	0.00	0.12	0.00	0.00	0.23	0.00	0.00
548U	10.32	5.12	0.23	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.10	0.00	0.10	0.00	0.00	0.21	0.00	0.00
550U	8.28	3.07	0.25	0.25	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.08	0.00	0.00	0.25	0.00	0.08
553U	8.54	3.24	0.27	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.00	0.09	0.00	0.00	0.26	0.00	0.00
554U	10.42	5.52	0.32	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.10	0.00	0.10	0.00	0.00	0.31	0.00	0.00
555U	10.58	5.73	0.33	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.11	0.00	0.11	0.11	0.00	0.32	0.00	0.00
556U	9.77	4.64	0.31	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.10	0.00	0.10	0.00	0.00	0.29	0.00	0.00
557U	8.56	3.26	0.38	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.09	0.00	0.09	0.00	0.00	0.26	0.00	0.00
558U	8.46	3.09	0.27	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.00	0.08	0.00	0.00	0.25	0.00	0.00
559U	8.50	3.23	0.47	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.09	0.09	0.09	0.00	0.00	0.26	0.00	0.00
560U	9.63	4.46	0.31	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.10	0.00	0.10	0.00	0.00	0.29	0.00	0.00
561U	8.59	3.31	0.58	0.26	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.07	0.09	0.00	0.09	0.00	0.00	0.26	0.00	0.00
563U	8.44	3.21	0.70	0.42	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.11	0.08	0.00	0.08	0.00	0.00	0.17	0.00	0.08
564U	8.66	3.43	0.28	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.00	0.09	0.				

Coating: Imron® Activators, Reducers, Solvents, and Additives

Content Weight %					
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Xylene (HAP)
500S (clear)		31.60%			
520U		47.75%			4.00%
521U		49.43%			4.00%
522U		51.06%			
523U		46.94%			4.00%
531U		35.15%			
532U		57.19%			
533U		38.86%			
534U		42.63%			
535U		37.08%			3.00%
536U		43.25%			
537U		49.16%			
538U		42.81%			
540U		42.62%			
541U		43.60%			1.00%
543U		42.47%			
544U		41.77%			
547U		57.18%			
548U		49.64%			
550U		37.06%			
553U		37.91%			
554U		52.95%			
555U		54.20%			
556U		47.54%			
557U		38.14%			1.00%
558U		38.45%			
559U		38.01%			2.00%
560U		46.33%			
561U		38.52%			3.00%
563U		38.03%			5.00%
564U		38.59%			
565U		38.42%			
567U		35.81%			
568U		37.82%			
570U		55.47%			
571U		35.00%			
572U		35.44%			

Content lb/gal					
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Xylene (HAP)
500S (clear)	8.25	2.61	0.26	0.25	0.00
520U	8.64	4.13	0.44	0.35	0.35
521U	8.74	4.32	0.45	0.35	0.35
522U	9.32	4.76	0.00	0.00	0.00
523U	8.62	4.05	0.44	0.34	0.34
531U	8.36	2.94	0.27	0.25	0.00
532U	11.18	6.39	0.91	0.56	0.00
533U	8.60	3.34	0.36	0.34	0.00
534U	8.69	3.70	0.97	0.96	0.00
535U	8.32	3.09	0.57	0.25	0.25
536U	9.29	4.02	0.30	0.28	0.00
537U	10.06	4.95	1.91	0.91	0.00
538U	8.77	3.75	0.37	0.35	0.00
540U	8.71	3.71	0.37	0.35	0.00
541U	8.93	3.89	0.47	0.36	0.09
543U	8.84	3.75	0.37	0.35	0.00
544U	8.60	3.59	0.62	0.60	0.00
547U	11.50	6.58	0.35	0.23	0.00
548U	10.32	5.12	0.23	0.21	0.00
550U	8.28	3.07	0.25	0.25	0.00
553U	8.54	3.24	0.27	0.26	0.00
554U	10.42	5.52	0.32	0.31	0.00
555U	10.58	5.73	0.33	0.32	0.00
556U	9.77	4.64	0.31	0.29	0.00
557U	8.56	3.26	0.38	0.26	0.09
558U	8.46	3.09	0.27	0.25	0.00
559U	8.50	3.23	0.47	0.26	0.17
560U	9.63	4.46	0.31	0.29	0.00
561U	8.59	3.31	0.58	0.26	0.26
563U	8.44	3.21	0.70	0.42	0.42
564U	8.66	3.43	0.28	0.26	0.00
565U	8.54	3.11	0.27	0.26	0.00
567U	8.39	3.00	0.27	0.25	0.00
568U	8.61	3.26	0.28	0.26	0.00
570U	8.18	4.54	0.26	0.25	0.00
571U	8.14	2.85	0.25	0.24	0.00
572U	8.16	2.89	0.41	0.41	0.00

Maximum (lb/gal) 11.50 6.58 1.91 0.96 0.42

Emission Rate (lb/hr) 9.2E 03 3.8E 01 1.9E 01 8.4E 02

IDAPA TAP EL (lb/hr) 2.90E+01

Below EL? Yes

Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	85.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating: ChromaBase® Clears

Content Weight %																		
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Acetone	Amyl Acetate	Aromatic Hydrocarbon	Butyl Acetate	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethyl Acetate	Ethylene Glycol Monobutyl Ether	Hexamethylene Diisocyanate (HDI)(HAP)	Isophorone Diisocyanate Polymer	Methyl Amyl Ketone	Methyl Ethyl Ketone (MEK)(HAP)	Methyl Isobutyl Ketone (MIBK)(HAP)	
7480S		30.95%			1.00%			1.00%	1.20%									
7565S		58.18%									1.00%		0.10%		1.00%			
7601S		3.72%					1.00%	1.00%	3.30%						1.00%			
7655S		39.12%					1.00%	1.00%										
7675S		37.62%					1.00%	1.00%										
7695S		37.76%					1.00%	1.00%		1.00%								
7699S		38.10%					1.00%	1.00%		1.00%								
7765S		47.03%				1.00%		1.00%						1.00%				
7775S		47.01%				1.00%		1.00%	1.30%	1.00%				1.00%				
7785S		46.97%				1.00%		1.00%	1.30%	1.00%	1.00%			1.00%				
7795S		46.97%						1.00%		1.00%				1.00%				
7875S		71.33%									1.00%		0.10%					
7895S		69.18%								1.00%			0.10%					
G2-4500S		48.67%			1.00%			1.00%	5.90%			5.00%			1.00%	1.00%	1.00%	
G2-4700S		50.52%																
G2-7779S		38.23%			1.00%		1.00%		3.00%						1.00%	1.00%		
HC-4500S		52.25%						1.00%	4.90%						1.00%	1.00%		
HC-4700S		51.46%						1.00%	5.60%						1.00%	1.00%		1.00%
HC-7776S		34.90%			1.00				3.80%						1.00%	1.00%		8.00%
LH7775		47.00%				1.00												
LH7779		39.00%			1.00			1.00%		1.00%				1.00%	1.00%			
LH7785		47.00%						1.00%		1.00%				1.00%				

Content lb/gal																		
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Acetone	Amyl Acetate	Aromatic Hydrocarbon	Butyl Acetate	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethyl Acetate	Ethylene Glycol Monobutyl Ether	Hexamethylene Diisocyanate (HDI)(HAP)	Isophorone Diisocyanate Polymer	Methyl Amyl Ketone	Methyl Ethyl Ketone (MEK)(HAP)	Methyl Isobutyl Ketone (MIBK)(HAP)	
7480S	7.55	2.34	0.47	0.38	0.08	0.00	0.00	0.08	0.09	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00
7565S	8.48	4.93	1.11	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.01	0.00	0.08	0.00	0.00	0.00
7601S	7.18	0.27	3.18	2.01	0.00	0.00	0.07	0.07	0.24	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00
7655S	8.11	3.17	2.19	2.19	0.00	0.00	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7675S	8.33	3.13	0.00	0.00	0.00	0.00	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7695S	8.39	3.17	0.00	0.00	0.00	0.00	0.08	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7699S	8.25	3.14	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7765S	8.29	3.90	1.08	1.08	0.00	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
7775S	8.32	3.91	1.11	0.58	0.00	0.08	0.00	0.08	0.11	0.08	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
7785S	8.34	3.92	0.53	0.42	0.00	0.00	0.00	0.08	0.11	0.08	0.08	0.00	0.00	0.08	0.00	0.00	0.00	0.00
7795S	8.33	3.91	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.08	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
7875S	8.90	6.35	0.72	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.01	0.00	0.00	0.00	0.00	0.00
7895S	9.04	6.25	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.45	0.01	0.00	0.00	0.00	0.00	0.00
G2-4500S	7.97	3.88	2.54	1.91	0.08	0.00	0.00	0.08	0.47	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.08
G2-4700S	8.04	4.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G2-7779S	7.63	2.92	1.22	0.92	0.08	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.00	0.00
HC-4500S	8.10	4.23	2.10	1.62	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.00	0.00
HC-4700S	8.04	4.14	2.38	1.77	0.00	0.00	0.00	0.08	0.45	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.00	0.00
HC-7776S	7.55	2.63	2.25	1.13	7.55	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.00	0.60
LH7775	8.24	3.87	0.08	0.08	0.00	8.24	0.00	0.08	0.00	0.08	0.00	0.00	0.00	0.08	0.00	0.08	0.00	0.00
LH7779	7.80	3.04	0.00	0.00	7.80	0.00	0.00	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00
LH7785	8.32	3.91	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.08	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
Maximum (lb/gal)	9.04	6.35	3.18	2.19	7.80	8.24	0.08	0.08	0.47	0.09	0.09	0.45	0.01	0.08	0.08	0.08	0.60	0.60

Emission Rate (lb/hr)	8.9E-03	6.4E-01	4.4E-01	1.6E+00	1.6E+00	1.7E-02	1.7E-02	9.4E-02	1.8E-02	1.8E-02	9.0E-02	2.7E-04	2.5E-03	1.7E-02	1.6E-02	1.2E-01		
IDAPA TAP EL (lb/hr)						1.19E+02		4.73E+01	2.90E+01		9.33E+01		2.0E-03	6.0E-03	1.57E+01	3.93E+01	1.37E+01	
Below EL?					Yes			Yes	Yes		Yes		Yes	Yes	Yes	Yes	Yes	

Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating: ChromaBase® Clears

Coating Type: ChromaBase® Clears

Content Weight %									
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Propionic Acid	Propylene Glycol Monomethyl Ether Acetate	Toluene (HAP)	1,2,4 Trimethyl Benzene	Xylene (HAP)
7480S		30.95%			1.00%				5.00%
7565S		58.18%					13.00%		
7601S		3.72%				1.00%	28.00%	2.00%	13.00%
7655S		39.12%					27.00%		
7675S		37.62%				1.00%			
7695S		37.76%						6.00%	
7699S		38.10%							
7765S		47.03%					13.00%		
7775S		47.01%					7.00%		5.00%
7785S		46.97%							5.00%
7795S		46.97%							
7875S		71.33%					8.00%		
7895S		69.18%							
G2-4500S		48.67%							24.00%
G2-4700S		50.52%							
G2-7779S		38.23%						2.00%	12.00%
HC-4500S		52.25%							20.00%
HC-4700S		51.46%							22.00%
HC-7776S		34.90%					2.00%		15.00%
LH7775		47.00%							
LH7779		39.00%							
LH7785		47.00%							

Content lb/gal									
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Propionic Acid	Propylene Glycol Monomethyl Ether Acetate	Toluene (HAP)	1,2,4 Trimethyl Benzene	Xylene (HAP)
7480S	7.55	2.34	0.47	0.38	0.08	0.00	0.00	0.00	0.38
7565S	8.48	4.93	1.11	1.10	0.00	0.00	1.10	0.00	0.00
7601S	7.18	0.27	3.18	2.01	0.00	0.07	2.01	0.14	0.93
7655S	8.11	3.17	2.19	2.19	0.00	0.00	2.19	0.00	0.00
7675S	8.33	3.13	0.00	0.00	0.00	0.08	0.00	0.00	0.00
7695S	8.39	3.17	0.00	0.00	0.00	0.00	0.00	0.50	0.00
7699S	8.25	3.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7765S	8.29	3.90	1.08	1.08	0.00	0.00	1.08	0.00	0.00
7775S	8.32	3.91	1.11	0.58	0.00	0.00	0.58	0.00	0.42
7785S	8.34	3.92	0.53	0.42	0.00	0.00	0.00	0.00	0.42
7795S	8.33	3.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7875S	8.90	6.35	0.72	0.71	0.00	0.00	0.71	0.00	0.00
7895S	9.04	6.25	0.01	0.01	0.00	0.00	0.00	0.00	0.00
G2-4500S	7.97	3.88	2.54	1.91	0.00	0.00	0.00	0.00	1.91
G2-4700S	8.04	4.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G2-7779S	7.63	2.92	1.22	0.92	0.00	0.00	0.00	0.15	0.92
HC-4500S	8.10	4.23	2.10	1.62	0.00	0.00	0.00	0.00	1.62
HC-4700S	8.04	4.14	2.38	1.77	0.00	0.00	0.00	0.00	1.77
HC-7776S	7.55	2.63	2.25	1.13	0.00	0.00	0.15	0.00	1.13
LH7775	8.24	3.87	0.08	0.08	0.00	0.00	0.00	0.00	0.00
LH7779	7.80	3.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LH7785	8.32	3.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (lb/gal)	9.04	6.35	3.18	2.19	0.08	0.08	2.19	0.50	1.91
Emission Rate (lb/hr)		8.9E-03	6.4E-01	4.4E-01	1.5E-02	1.7E-02	4.4E-01	1.0E-01	3.8E-01
IDAPA TAP EL (lb/hr)					2.00E+00		2.50E+01	8.20E+00	2.90E+01
Below EL?					Yes		Yes	Yes	Yes

Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating: ChromaBase® Factory Packaged Colors

Content Weight %															
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Acetone	Aluminum	Butyl Acetate	Carbon Black (particulate)	Ethyl Benzene (HAP)	Isobutanol	Methyl Ethyl Ketone (MEK)(HAP)	Mica (particulate)	Silica Silicon Dioxide (particulate)	Toluene (HAP)	Xylene (HAP)
99K		32.28%					1.00%	2.40%	2.70%		1.00%			24.00%	7.00%
100990K		24.15%			1.00%		1.00%	1.00%	5.50%	1.00%					20.00%
101756K		25.12%			1.00%	1.00%	1.00%	0.40%	5.30%	1.00%					19.00%
736625K		25.40%			1.00%	1.00%	1.00%		5.50%	1.00%					19.00%
738766K		29.55%			1.00%		1.00%		5.70%	1.00%			1.00%		19.00%
745101K		23.80%			1.00%		1.00%		5.60%	1.00%					20.00%
747402K		26.41%			1.00%		1.00%		6.30%						24.00%
B8424K		40.45%			1.00%		1.00%		4.60%				1.00%		1.00%
B8469K		40.44%			1.00%		1.00%		4.60%				1.00%		18.00%
B8550K		38.65%			1.00%		1.00%		4.60%				1.00%		18.00%
B8713K		27.13%			1.00%		1.00%		7.30%						27.00%
B8833K		40.57%			1.00%		1.00%		4.60%				1.00%		18.00%
B9025K		25.74%			1.00%		1.00%	0.10%	5.90%						22.00%
B9031K		25.37%			1.00%		1.00%		6.80%						26.00%
B9118K		51.86%			1.00%		1.00%		4.60%				1.00%		17.00%
B9145K		40.48%			1.00%		1.00%		5.70%				1.00%		20.00%
B9326K		30.05%			1.00%		1.00%		7.00%						26.00%
B9444K		40.63%			1.00%		1.00%		4.60%				1.00%		18.00%
D8590K		28.17%			1.00%	6.00%	1.00%		5.60%						20.00%
F7996K		25.81%			1.00%		1.00%		6.70%			1.00%			25.00%
M5150K		26.45%			1.00%	1.00%	1.00%		6.00%	1.00%					20.00%
M8744K		26.49%			1.00%		1.00%		6.10%	1.00%					20.00%
M8757K		31.90%			1.00%		1.00%	0.10%	5.70%						21.00%
M9318K		25.89%			1.00%	4.00%	1.00%	0.10%	5.10%	1.00%					19.00%
M9369K		26.69%			1.00%	1.00%	1.00%		6.00%	1.00%					20.00%
P0931K		25.16%			1.00%		1.00%	0.40%	5.70%	1.00%					20.00%
P0932K		25.90%			1.00%	1.00%	1.00%	0.30%	5.50%						20.00%
P0960K		24.55%			1.00%		1.00%	0.60%	5.50%	1.00%					19.00%
P2236K		22.06%			1.00%		1.00%		5.30%	1.00%					20.00%
P4040K		23.93%			1.00%		1.00%	0.30%	5.50%	1.00%					19.00%
P4577K		24.84%			1.00%		1.00%		6.10%	1.00%					21.00%
P4846K		25.92%			1.00%		1.00%		6.10%	1.00%					20.00%
P4927K		24.18%			1.00%		1.00%	0.30%	5.60%	1.00%					20.00%
P6640K		26.71%			1.00%		1.00%		5.60%	1.00%					18.00%
P6647K		29.75%			1.00%		1.00%		6.30%	1.00%					22.00%
P6755K		25.11%			1.00%	1.00%	1.00%		5.30%	1.00%					20.00%
P6834K		27.98%			1.00%		1.00%		5.10%	1.00%					18.00%
P7105K		27.49%			1.00%		1.00%		6.00%	1.00%			1.00%		19.00%
P7304K		24.11%			1.00%		1.00%		5.30%	1.00%					19.00%
P7333K		24.06%			1.00%	1.00%	1.00%	0.10%	5.70%	1.00%					22.00%
W8430K		40.67%			1.00%		1.00%		4.60%				1.00%		18.00%

Coating: ChromaBase® Factory Packaged Colors

Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Acetone	Aluminum	Butyl Acetate	Carbon Black (particulate)	Ethyl Benzene (HAP)	Isobutanol	Methyl Ethyl Ketone (MEK)(HAP)	Mica (particulate)	Silica Silicon Dioxide (particulate)	Toluene (HAP)	Xylene (HAP)
99K	7.81	2.52	2.71	1.87	0.00	0.00	0.08	0.19	0.21	0.00	0.08	0.00	0.00	1.87	0.55
100990K	7.68	1.85	1.96	1.54	0.08	0.00	0.08	0.00	0.42	0.08	0.00	0.00	0.00	0.00	1.54
101756K	7.76	1.95	1.89	1.47	0.08	0.08	0.08	0.03	0.41	0.08	0.00	0.00	0.00	0.00	1.47
736625K	7.76	1.97	1.90	1.47	0.08	0.08	0.08	0.00	0.43	0.08	0.00	0.00	0.00	0.00	1.47
738766K	7.82	2.31	1.93	1.49	0.08	0.00	0.08	0.00	0.45	0.08	0.00	0.00	0.08	0.00	1.49
745101K	7.69	1.83	1.97	1.54	0.08	0.00	0.08	0.00	0.43	0.08	0.00	0.00	0.00	0.00	1.54
747402K	7.83	2.07	2.37	1.88	0.08	0.00	0.08	0.00	0.49	0.00	0.00	0.00	0.00	0.00	1.88
B8424K	9.17	3.71	0.51	0.42	0.09	0.00	0.09	0.00	0.42	0.00	0.00	0.00	0.09	0.00	0.09
B8469K	9.17	3.71	2.07	1.65	0.09	0.00	0.09	0.00	0.42	0.00	0.00	0.00	0.09	0.00	1.65
B8550K	9.00	3.48	2.03	1.62	0.09	0.00	0.09	0.00	0.41	0.00	0.00	0.00	0.09	0.00	1.62
B8713K	7.80	2.12	2.68	2.11	0.08	0.00	0.08	0.00	0.57	0.00	0.00	0.00	0.00	0.00	2.11
B8833K	9.18	3.72	2.07	1.65	0.09	0.00	0.09	0.00	0.42	0.00	0.00	0.00	0.09	0.00	1.65
B9025K	7.84	2.02	2.19	1.72	0.08	0.00	0.08	0.01	0.46	0.00	0.00	0.00	0.00	0.00	1.72
B9031K	7.79	1.98	2.56	2.03	0.08	0.00	0.08	0.00	0.53	0.00	0.00	0.00	0.00	0.00	2.03
B9118K	10.40	5.39	2.25	1.77	0.10	0.00	0.10	0.00	0.48	0.00	0.00	0.00	0.10	0.00	1.77
B9145K	9.17	3.71	2.36	1.83	0.09	0.00	0.09	0.00	0.52	0.00	0.00	0.00	0.09	0.00	1.83
B9326K	7.86	2.36	2.59	2.04	0.08	0.00	0.08	0.00	0.55	0.00	0.00	0.00	0.00	0.00	2.04
B9444K	9.18	3.73	2.07	1.65	0.09	0.00	0.09	0.00	0.42	0.00	0.00	0.00	0.09	0.00	1.65
D8590K	7.98	2.25	2.04	1.60	0.08	0.48	0.08	0.00	0.45	0.00	0.00	0.00	0.00	0.00	1.60
F7986K	7.81	2.02	2.48	1.95	0.08	0.00	0.08	0.00	0.52	0.00	0.00	0.08	0.00	0.00	1.95
M5150K	7.75	2.05	2.02	1.55	0.08	0.08	0.08	0.00	0.47	0.08	0.00	0.00	0.00	0.00	1.55
M8744K	7.71	2.04	2.01	1.54	0.08	0.00	0.08	0.00	0.47	0.08	0.00	0.00	0.00	0.00	1.54
M8757K	8.00	2.55	2.14	1.68	0.08	0.00	0.08	0.01	0.46	0.00	0.00	0.00	0.00	0.00	1.68
M9318K	7.86	2.03	1.89	1.49	0.08	0.31	0.08	0.01	0.40	0.08	0.00	0.00	0.00	0.00	1.49
M9369K	7.75	2.07	2.02	1.55	0.08	0.08	0.08	0.00	0.47	0.08	0.00	0.00	0.00	0.00	1.55
P0931K	7.72	1.94	1.98	1.54	0.08	0.00	0.08	0.03	0.44	0.08	0.00	0.00	0.00	0.00	1.54
P0932K	7.80	2.02	1.99	1.56	0.08	0.08	0.08	0.02	0.43	0.00	0.00	0.00	0.00	0.00	1.56
P0960K	7.69	1.89	1.88	1.46	0.08	0.00	0.08	0.05	0.42	0.08	0.00	0.00	0.00	0.00	1.46
P2236K	7.65	1.69	1.94	1.53	0.08	0.00	0.08	0.00	0.41	0.08	0.00	0.00	0.00	0.00	1.53
P4040K	7.67	1.84	1.88	1.46	0.08	0.00	0.08	0.02	0.42	0.08	0.00	0.00	0.00	0.00	1.46
P4577K	7.66	1.90	2.08	1.61	0.08	0.00	0.08	0.00	0.47	0.08	0.00	0.00	0.00	0.00	1.61
P4846K	7.69	1.99	2.01	1.54	0.08	0.00	0.08	0.00	0.47	0.08	0.00	0.00	0.00	0.00	1.54
P4927K	7.68	1.86	1.97	1.54	0.08	0.00	0.08	0.02	0.43	0.08	0.00	0.00	0.00	0.00	1.54
P6640K	7.68	2.05	1.81	1.38	0.08	0.00	0.08	0.00	0.43	0.08	0.00	0.00	0.00	0.00	1.38
P6647K	7.88	2.34	2.23	1.73	0.08	0.00	0.08	0.00	0.50	0.08	0.00	0.00	0.00	0.00	1.73
P6755K	7.78	1.95	1.97	1.56	0.08	0.08	0.08	0.00	0.41	0.08	0.00	0.00	0.00	0.00	1.56
P6834K	7.92	2.22	1.83	1.43	0.08	0.00	0.08	0.00	0.40	0.08	0.00	0.00	0.00	0.00	1.43
P7105K	7.74	2.13	1.94	1.47	0.08	0.00	0.08	0.00	0.46	0.08	0.00	0.00	0.08	0.00	1.47
P7304K	7.67	1.85	1.86	1.46	0.08	0.00	0.08	0.00	0.41	0.08	0.00	0.00	0.00	0.00	1.46
P7333K	7.74	1.86	2.14	1.70	0.08	0.08	0.08	0.01	0.44	0.08	0.00	0.00	0.00	0.00	1.70
W8430K	9.18	3.73	2.07	1.65	0.09	0.00	0.09	0.00	0.42	0.00	0.00	0.00	0.09	0.00	1.65
Maximum (lb/gal)	10.40	5.39	2.71	2.11	0.10	0.48	0.10	0.19	0.57	0.08	0.08	0.08	0.10	1.87	2.11

Emission Rate (lb/hr)	7.6E-03	5.4E-01	4.2E-01	2.1E-02	9.6E-02	2.1E-02	2.6E-04	1.1E-01	1.6E-02	1.6E-02	1.1E-04	1.5E-04	3.7E-01	4.2E-01
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IDAPA TAP EL (lb/hr)					1.19E+02	6.67E-01	4.73E+01	2.3E-01	2.90E+01	1.0E+01	3.93E+01	2.00E-01	6.70E-03	2.50E+01	2.90E+01
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Below EL?					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
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Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating: Centari® 5000 Acylic Urethane

Content Weight %																	
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Aluminum	Antimony & Compounds (particulate) (HAP)	Aromatic Hydrocarbon	Barium (soluble) (particulate)	Butyl Acetate	Carbon Black (particulate)	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethyl Acetate	Ethylene Glycol Monobutyl Ether	Hexamethylene Diisocyanate (HDI)(HAP)	Kaolin (particulate)	Methyl Amyl Ketone
359S		25.01%					1.00%		1.00%								
389S		1.00%															
501H		52.26%							1.00%	0.60%	0.20%						1.00%
502H		71.79%							1.00%								
503H		77.54%							1.00%		0.30%						1.00%
504H		49.95%					1.00%		1.00%		0.20%						1.00%
505H		48.82%							1.00%	4.10%	1.40%						1.00%
506H		44.39%							1.00%								1.00%
507H		48.62%					1.00%		1.00%								1.00%
509H		53.24%							1.00%								1.00%
510H		76.30%							1.00%								1.00%
512H		75.76%				1.50%	1.00%	1.00%	1.00%								1.00%
513H		42.59%					1.00%	1.00%	1.00%								1.00%
514H		47.13%							1.00%								1.00%
515H		66.39%															1.00%
516H		77.59%			1.00%				1.00%								1.00%
518H		52.93%					1.00%		1.00%		0.40%						1.00%
519H		48.58%					1.00%		1.00%								1.00%
522H		51.06%			25.00%		1.00%		1.00%								1.00%
525H		52.70%					1.00%		1.00%								1.00%
527H		44.06%						1.00%	1.00%								1.00%
528H		48.94%						1.00%	1.00%								1.00%
529H		51.47%						1.00%	1.00%								1.00%
538H		72.17%				9.00%			1.00%								1.00%
542H		48.81%					1.00%		1.00%								1.00%
545H		54.32%					1.00%		1.00%								1.00%
551H		52.75%							1.00%		0.20%						1.00%
569H		59.60%							1.00%		0.10%						1.00%
577H		34.39%					1.00%		1.00%		0.10%						1.00%
590H		49.62%			24.00%		1.00%		1.00%								1.00%
773A		75.25%									0.40%			2.00%			1.00%
774A		69.54%									0.40%		1.00%	4.00%			1.00%
778A		93.59%									0.20%		1.00%				1.00%
785S		90.00%													0.20%		1.00%
795S		66.78%							1.00%				1.00%	6.00%	0.10%		1.00%
8685S		0.00%											1.00%	40.00%			1.00%
8785S		0.00%												26.00%			1.00%
8909S		95.00%													0.20%		1.00%
8920S		93.67%									0.20%		1.00%				1.00%
8928S		71.90%						1.00%			0.40%		1.00%	10.00%		1.00%	1.00%
8930S		0.00%											1.00%				1.00%
8989S		5.00%															1.00%
VG70050		58.98%										1.00%					1.00%

Coating: Centari® 5000 Acrylic Urethane

Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Aluminum	Antimony & Compounds (particulate) (HAP)	Aromatic Hydrocarbon	Barium (soluble) (particulate)	Butyl Acetate	Carbon Black (particulate)	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethyl Acetate	Ethylene Glycol Monobutyl Ether	Hexamethylene Diisocyanate (HDI)(HAP)	Kaolin (particulate)	Methyl Amyl Ketone
359S	7.67	1.92	0.15	0.15	0.00	0.00	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
389S	8.14	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
501H	8.22	4.30	0.02	0.02	0.00	0.00	0.00	0.00	0.08	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.08
502H	14.20	10.19	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
503H	16.71	12.96	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.17
504H	8.55	4.27	0.02	0.02	0.00	0.00	0.09	0.00	0.09	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.09
505H	8.24	4.02	0.28	0.16	0.00	0.00	0.00	0.00	0.08	0.34	0.12	0.00	0.00	0.00	0.00	0.00	0.08
506H	8.20	3.64	0.08	0.08	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
507H	8.58	4.17	0.09	0.09	0.00	0.00	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
509H	9.16	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
510H	15.82	12.07	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
512H	15.50	11.74	0.23	0.23	0.00	0.23	0.16	0.16	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
513H	8.65	3.68	0.17	0.17	0.00	0.00	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
514H	8.46	3.99	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
515H	12.47	8.28	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
516H	14.96	11.61	0.00	0.00	0.15	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
518H	8.41	4.45	0.12	0.08	0.00	0.00	0.08	0.00	0.08	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.08
519H	8.27	4.02	0.00	0.00	0.00	0.00	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
522H	9.32	4.76	0.00	0.00	2.33	0.00	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
525H	9.55	5.03	0.00	0.00	0.00	0.00	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
527H	8.81	3.88	0.26	0.26	0.00	0.00	0.00	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
528H	9.17	4.49	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
529H	9.43	4.85	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
538H	14.80	10.68	1.48	1.33	0.00	1.33	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
542H	8.30	4.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
545H	9.32	5.06	0.00	0.00	0.00	0.00	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
551H	9.57	5.05	0.02	0.02	0.00	0.00	0.00	0.00	0.10	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.10
569H	9.68	5.77	0.01	0.01	0.00	0.00	0.00	0.00	0.10	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.10
577H	8.09	2.78	0.09	0.08	0.00	0.00	0.08	0.00	0.08	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.08
590H	9.18	4.56	0.00	0.00	2.20	0.00	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
773A	8.93	6.72	0.21	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.18	0.00	0.00	0.09
774A	8.77	6.10	0.21	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.09	0.35	0.00	0.00	0.09
778A	9.06	8.48	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.09	0.00	0.00	0.00	0.00
785S	9.24	8.32	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.09
795S	8.82	5.89	0.01	0.01	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.09	0.53	0.01	0.00	0.00
8685S	7.55	0.00	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	3.02	0.00	0.00	0.00
8785S	6.75	0.00	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.76	0.00	0.00	0.07
8909S	9.44	8.97	0.11	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
8920S	8.57	8.03	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.09	0.00	0.00	0.00	0.00
8928S	13.89	9.99	0.33	0.14	0.00	0.00	0.00	0.14	0.00	0.00	0.06	0.00	0.14	1.39	0.00	0.14	0.00
8930S	6.57	0.00	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.07
8989S	8.16	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VG70050	8.26	4.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.08

Maximum (lb/gal) 16.71 12.96 1.48 1.33 2.33 1.33 0.16 0.16 0.16 0.34 0.12 0.08 0.14 3.02 0.02 0.14 0.17

Emission Rate (lb/hr) 1.8E-02 3.0E-01 2.7E-01 4.7E-01 1.9E-03 3.1E-02 2.2E-04 3.2E-02 4.7E-04 2.3E-02 1.7E-02 2.8E-02 6.0E-01 5.7E-04 1.9E-04 3.3E-02

IDAPA TAP EL (lb/hr) 6.67E-01 3.30E-02 3.30E-02 4.73E+01 2.3E-01 2.90E+01 9.33E+01 2.0E-03 1.3E-01 1.57E+01

Below EL? Yes Yes Yes Yes Yes Yes Yes Yes Yes

Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating: Centari® 5000 Acylic Urethane

Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Methyl Ethyl Ketone (MEK)(HAP)	Propylene Glycol Monomethyl Ether Acetate	Silica Silicon Dioxide (particulate)	Toluene (HAP)	1,2,4 Trimethyl Benzene	Xylene (HAP)
359S	7.67	1.92	0.15	0.15	0.00	0.00	0.00	0.00	0.54	0.15
389S	8.14	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
501H	8.22	4.30	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00
502H	14.20	10.19	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
503H	16.71	12.96	0.05	0.05	0.00	0.17	0.00	0.00	0.00	0.00
504H	8.55	4.27	0.02	0.02	0.00	0.09	0.00	0.00	0.17	0.00
505H	8.24	4.02	0.28	0.16	0.00	0.00	0.00	0.16	0.00	0.00
506H	8.20	3.64	0.08	0.08	0.00	0.00	0.00	0.08	0.16	0.00
507H	8.58	4.17	0.09	0.09	0.00	0.09	0.00	0.09	0.09	0.00
509H	9.16	4.88	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
510H	15.82	12.07	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
512H	15.50	11.74	0.23	0.23	0.00	0.16	0.00	0.00	0.00	0.00
513H	8.65	3.68	0.17	0.17	0.00	0.09	0.00	0.17	0.00	0.00
514H	8.46	3.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
515H	12.47	8.28	0.25	0.25	0.00	0.12	0.00	0.25	0.00	0.00
516H	14.96	11.61	0.00	0.00	0.00	0.15	0.15	0.00	0.00	0.00
518H	8.41	4.45	0.12	0.08	0.00	0.08	0.00	0.00	0.25	0.08
519H	8.27	4.02	0.00	0.00	0.00	0.08	0.00	0.00	0.25	0.00
522H	9.32	4.76	0.00	0.00	0.00	0.09	0.00	0.00	0.37	0.00
525H	9.55	5.03	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00
527H	8.81	3.88	0.26	0.26	0.00	0.09	0.00	0.26	0.00	0.00
528H	9.17	4.49	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
529H	9.43	4.85	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
538H	14.80	10.68	1.48	1.33	0.00	0.15	0.00	0.15	0.00	0.00
542H	8.30	4.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
545H	9.32	5.06	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00
551H	9.57	5.05	0.02	0.02	0.00	0.10	0.00	0.00	0.00	0.00
569H	9.68	5.77	0.01	0.01	0.00	0.10	0.00	0.00	0.00	0.00
577H	8.09	2.78	0.09	0.08	0.08	0.00	0.00	0.00	0.16	0.00
590H	9.18	4.56	0.00	0.00	0.00	0.09	0.00	0.00	0.18	0.00
773A	8.93	6.72	0.21	0.18	0.00	0.00	0.00	0.00	0.00	0.18
774A	8.77	6.10	0.21	0.18	0.00	0.00	0.00	0.00	0.00	0.18
778A	9.06	8.48	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00
785S	9.24	8.32	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00
795S	8.82	5.89	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
8685S	7.55	0.00	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00
8785S	6.75	0.00	0.07	0.07	0.07	0.00	0.00	0.00	0.00	0.00
8909S	9.44	8.97	0.11	0.09	0.09	0.00	0.00	0.00	0.00	0.00
8920S	8.57	8.03	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8928S	13.89	9.99	0.33	0.14	0.14	0.00	0.00	0.00	0.00	0.14
8930S	6.57	0.00	0.07	0.07	0.07	0.00	0.00	0.00	0.00	0.00
8989S	8.16	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VGF70050	8.26	4.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (lb/gal)	16.71	12.96	1.48	1.33	0.14	0.17	0.15	0.26	0.54	0.18

Emission Rate (lb/hr)	1.8E-02	3.0E-01	2.7E-01	2.8E-02	3.3E-02	2.1E-04	5.3E-02	1.1E-01	3.6E-02
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IDAPA TAP EL (lb/hr)				3.93E+01		6.70E-03	2.50E+01	8.20E+00	2.90E+01
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Below EL?				Yes		Yes	Yes	Yes	Yes
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Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating: BASF Primers

Content Weight %																	
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Acetone	Butyl Acetate	Carbon Black (particulate)	Ethyl Benzene (HAP)	Kaolin (particulate)	Magnesium Carbonate	1-Methoxy-2-Propanol Acetate	Methyl Acetate	Methyl Amyl Ketone	Methyl Ethyl Ketone (MEK)(HAP)	Naphthalene (HAP)	PCBTF	Phosphoric Acid Aluminum Salt (particulate)
DP-20		67%			10.00%	10.00%		1.80%	15.00%	5.00%	10.00%						
DP-21		70%				20.00%		1.10%	20.00%	5.00%	5.00%						
DP-25		59%			5.00%	20.00%		1.40%	15.00%		5.00%	5.00%	5.00%				5.00%
DP-26		59%			5.00%	20.00%	5.00%	1.40%	15.00%		5.00%	5.00%	5.00%				5.00%
DP-27		59%			5.00%	20.00%	5.00%	1.40%	20.00%		5.00%	5.00%	5.00%				
DP-31		66%			5.00%	15.00%		1.50%	10.00%	5.00%	5.00%						
DP-200		68%			10.00%				20.00%	5.00%				5.00%			
DP-210		87%				10.00%				5.00%				10.00%			
DP-226		67%			5.00%	5.00%		0.20%	15.00%	5.00%	5.00%	10.00%					
DP-238		79%									10.00%		5.00%				
DP-321		54%			10.00%				10.00%	5.00%			10.00%			40.00%	
DP-8330		52%			25.00%		5.00%	0.20%	5.00%					15.00%	1.00%		
DP-8335		52%			25.00%		5.00%	0.20%	5.00%					15.00%	1.00%		

Content lb/gal																	
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Acetone	Butyl Acetate	Carbon Black (particulate)	Ethyl Benzene (HAP)	Kaolin (particulate)	Magnesium Carbonate	1-Methoxy-2-Propanol Acetate	Methyl Acetate	Methyl Amyl Ketone	Methyl Ethyl Ketone (MEK)(HAP)	Naphthalene (HAP)	PCBTF	Phosphoric Acid Aluminum Salt (particulate)
DP-20	12.62	8.46	1.20	0.97	1.26	1.26	0.00	0.23	1.89	0.63	1.26	0.00	0.00	0.00	0.00	0.00	0.00
DP-21	12.75	8.93	0.80	0.66	0.00	2.55	0.00	0.14	2.55	0.64	0.64	0.00	0.00	0.00	0.00	0.00	0.00
DP-25	11.58	6.83	0.88	0.72	0.58	2.32	0.00	0.16	1.74	0.00	0.58	0.58	0.58	0.00	0.00	0.00	0.58
DP-26	11.56	6.82	0.88	0.72	0.58	2.31	0.00	0.16	1.73	0.00	0.58	0.58	0.58	0.00	0.00	0.00	0.58
DP-27	11.41	6.73	0.87	0.71	0.57	2.28	0.00	0.16	2.28	0.00	0.57	0.57	0.57	0.00	0.00	0.00	0.00
DP-31	10.95	7.23	0.90	0.73	0.55	1.64	0.00	0.16	1.10	0.55	0.00	0.00	0.55	0.00	0.00	0.00	0.00
DP-200	14.04	9.55	0.70	0.70	1.40	0.00	0.00	0.00	2.81	0.70	0.00	0.00	1.40	0.70	0.00	0.00	0.00
DP-210	16.76	14.58	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.84	0.00	0.00	1.68	0.00	0.00	0.00	0.00
DP-226	13.73	9.20	0.03	0.03	0.69	0.69	0.00	0.03	2.06	0.69	0.69	1.37	0.00	0.00	0.00	0.00	0.00
DP-238	16.04	12.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	0.00	0.80	0.00	0.00	0.00	0.00
DP-321	12.06	6.51	0.00	0.00	1.21	0.00	0.00	0.00	1.21	0.60	0.00	0.00	1.21	0.00	0.00	4.82	0.00
DP-8330	9.19	4.78	2.41	1.38	2.30	0.00	0.46	0.02	0.46	0.00	0.00	0.00	0.00	1.38	0.09	0.00	0.00
DP-8335	9.19	4.78	2.41	1.38	2.30	0.00	0.46	0.02	0.46	0.00	0.00	0.00	0.00	1.38	0.09	0.00	0.00

Maximum (lb/gal)	16.76	14.58	2.41	1.38	2.30	2.55	0.58	0.23	2.81	0.84	1.60	1.37	1.68	1.38	0.09	4.82	0.58
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Emission Rate (lb/hr)	2.0E-02	4.8E-01	2.8E-01	4.6E-01	5.1E-01	8.1E-04	4.5E-02	3.9E-03	1.7E-01	3.2E-01	2.7E-01	3.4E-01	2.8E-01	1.8E-02	9.6E-01	8.1E-04
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IDAPA TAP EL (lb/hr)					1.19E+02	4.73E+01	2.3E-01	2.90E+01	1.3E-01		2.40E+01	4.1E+01	1.57E+01	3.93E+01	3.33E+00		6.70E-02
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Below EL?					Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes
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Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating: BASF Primers

Content Weight %									
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Silica Gel (particulate)	Silica Silicon Dioxide (particulate)	Toluene (HAP)	1,2,4 Trimethyl Benzene	Xylene (HAP)
DP-20		67%			5%	5.00%			7.70%
DP-21		70%							5.20%
DP-25		59%			5%	5.00%		2.00%	6.20%
DP-26		59%				5.00%		2.00%	6.20%
DP-27		59%				5.00%		2.00%	6.20%
DP-31		66%				5.00%			6.70%
DP-200		68%			5%	5.00%			
DP-210		87%				10.00%			
DP-226		67%			5%	5.00%			
DP-238		79%			5%				
DP-321		54%				5.00%			
DP-8330		52%				10.00%	10.00%		
DP-8335		52%				10.00%	10.00%		

Content lb/gal									
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Silica Gel (particulate)	Silica Silicon Dioxide (particulate)	Toluene (HAP)	1,2,4 Trimethyl Benzene	Xylene (HAP)
DP-20	12.62	8.46	1.20	0.97	0.63	0.63	0.00	0.00	0.97
DP-21	12.75	8.93	0.80	0.66	0.00	0.00	0.00	0.00	0.66
DP-25	11.58	6.83	0.88	0.72	0.58	0.58	0.00	0.23	0.72
DP-26	11.56	6.82	0.88	0.72	0.00	0.58	0.00	0.23	0.72
DP-27	11.41	6.73	0.87	0.71	0.00	0.57	0.00	0.23	0.71
DP-31	10.95	7.23	0.90	0.73	0.00	0.55	0.00	0.00	0.73
DP-200	14.04	9.55	0.70	0.70	0.70	0.70	0.00	0.00	0.00
DP-210	16.76	14.58	0.00	0.00	0.00	1.68	0.00	0.00	0.00
DP-226	13.73	9.20	0.03	0.03	0.69	0.69	0.00	0.00	0.00
DP-238	16.04	12.67	0.00	0.00	0.80	0.00	0.00	0.00	0.00
DP-321	12.06	6.51	0.00	0.00	0.00	0.60	0.00	0.00	0.00
DP-8330	9.19	4.78	2.41	1.38	0.00	0.92	0.92	0.00	0.00
DP-8335	9.19	4.78	2.41	1.38	0.00	0.92	0.92	0.00	0.00

Maximum (lb/gal) 16.76 14.58 2.41 1.38 0.80 1.68 0.92 0.23 0.97

Emission Rate (lb/hr) 2.0E-02 4.8E-01 2.8E-01 1.1E-03 2.3E-03 1.8E-01 4.6E-02 1.9E-01

IDAPA TAP EL (lb/hr) 6.67E-01 6.70E-03 2.50E+01 8.20E+00 2.90E+01

Below EL? Yes Yes Yes Yes Yes

Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating: BASF Reducer

Content Weight %								
Coating Material	Density	Solids (particulate)	HAP _{TOT}	HAP _{MAX}	Butyl Acetate	Stoddard Solvent Mineral Spirits	1,2,4 Trimethyl Benzene	VM&P Naphtha
UR50		0%			65.00%	15.00%	2.00%	5.00%
Content lb/gal								
Coating Material	Density	Solids (particulate)	HAP _{TOT}	HAP _{MAX}	Butyl Acetate	Stoddard Solvent Mineral Spirits	1,2,4 Trimethyl Benzene	VM&P Naphtha
UR50	7.28	0.00	0.00	0.00	4.73	1.09	0.15	0.36
Maximum (lb/gal)	7.28	0.00	0.00	0.00	4.73	1.09	0.15	0.36
Emission Rate (lb/hr)		0.0E+00	0.0E+00	0.0E+00	9.5E-01	2.2E-01	2.9E-02	7.3E-02
IDAPA TAP EL (lb/hr)					4.73E+01	3.50E+01	8.20E+00	9.13E+01
Below EL?					Yes	Yes	Yes	Yes

Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating: BASF Bases and Colors

Content Weight %														
Coating Material	Density	Solids (particulate)	HAP _{TOT}	HAP _{MAX}	Butyl Acetate	Carbon Black (particulate)	Ethyl Benzene (HAP)	Methyl Amyl Ketone	Methyl Isobutyl Ketone (MIBK)(HAP)	Silica Amorphous (particulate)	Stoddard Solvent Mineral Spirits	Toluene (HAP)	1,2,4 Trimethyl Benzene	Xylene (HAP)
HD10					50.00%	5.00%	3.40%	60.00%		10.00%	5.00%		5%	13.73%
HD17							1.50%						7.10%	6.20%
HD18							1.80%						6.70%	7.10%
HD45													5.90%	
HD60							0.50%							2.00%
HD81							0.70%							2.80%
HD85							1.00%							4.10%
HD87							1.00%							3.80%
SC00							0.40%							1.50%
SC01							1.30%						1.70%	5.30%
SC03												2.30%	1.90%	
SC10							0.10%		4.00%				7.90%	
SC20									4.50%				7.10%	
SC25							0.20%		2.70%				6.90%	1.30%
SC29									5.20%				7.30%	
SC30							0.10%		2.00%				6.80%	
SC40									5.50%				6.70%	
SC403							0.40%		2.00%				6%	2.10%
SC44									4.80%				6.60%	
SC46							0.10%		7.60%				6.60%	
SC54							0.10%		5.60%				6.40%	
SC56							0.10%		4.90%				6.60%	
SC59									6.00%				7.30%	
SC61									4.00%				4.50%	
SC62							0.40%		1.70%				5.80%	2.00%
SC66							0.10%		2.70%				4.60%	
SC67							0.40%		3.20%				6.40%	
SC69									3.50%				7.20%	
SC74									3.00%				4.90%	
SC77									3.30%				6.10%	
SC79									6.80%				7.30%	
SC804							1.30%		4.20%				7.00%	7.30%
SC82									5.40%				5.50%	
SC85									1.10%				5.00%	
SC86									1.10%				5.90%	
SC88									5.00%				6.20%	
SC90							0.70%							2.80%
SC99									2.60%				7.00%	

Coating: BASF Bases and Colors

Coating Material	Density	Solids (particulate)	HAP _{TOT}	HAP _{MAX}	Butyl Acetate	Carbon Black (particulate)	Ethyl Benzene (HAP)	Methyl Amyl Ketone	Methyl Isobutyl Ketone (MIBK)(HAP)	Silica Amorphous (particulate)	Stoddard Solvent Mineral Spirits	Toluene (HAP)	1,2,4 Trimethyl Benzene	Xylene (HAP)
HD10	11.9	0.00	2.04	1.63	5.95	0.60	0.40	7.14	0.00	1.19	0.60	0.00	0.54	1.63
HD17	11.9	0.00	0.92	0.74	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.84	0.74
HD18	11.9	0.00	1.06	0.84	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.80	0.84
HD45	11.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00
HD60	11.9	0.00	0.30	0.24	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.24
HD81	11.9	0.00	0.42	0.33	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.33
HD85	11.9	0.00	0.61	0.49	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.49
HD87	11.9	0.00	0.57	0.45	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.45
SC00	11.9	0.00	0.23	0.18	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.18
SC01	11.9	0.00	0.79	0.63	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.20	0.63
SC03	11.9	0.00	0.27	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.23	0.00
SC10	11.9	0.00	0.49	0.48	0.00	0.00	0.01	0.00	0.48	0.00	0.00	0.00	0.94	0.00
SC20	11.9	0.00	0.54	0.54	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.84	0.00
SC25	11.9	0.00	0.50	0.32	0.00	0.00	0.02	0.00	0.32	0.00	0.00	0.00	0.82	0.15
SC29	11.9	0.00	0.62	0.62	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.87	0.00
SC30	11.9	0.00	0.25	0.24	0.00	0.00	0.01	0.00	0.24	0.00	0.00	0.00	0.81	0.00
SC40	11.9	0.00	0.65	0.65	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.80	0.00
SC403	11.9	0.00	0.54	0.25	0.00	0.00	0.05	0.00	0.24	0.00	0.00	0.00	0.71	0.25
SC44	11.9	0.00	0.57	0.57	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.79	0.00
SC46	11.9	0.00	0.92	0.90	0.00	0.00	0.01	0.00	0.90	0.00	0.00	0.00	0.79	0.00
SC54	11.9	0.00	0.68	0.67	0.00	0.00	0.01	0.00	0.67	0.00	0.00	0.00	0.76	0.00
SC56	11.9	0.00	0.60	0.58	0.00	0.00	0.01	0.00	0.58	0.00	0.00	0.00	0.79	0.00
SC59	11.9	0.00	0.71	0.71	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.87	0.00
SC61	11.9	0.00	0.48	0.48	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.54	0.00
SC62	11.9	0.00	0.49	0.24	0.00	0.00	0.05	0.00	0.20	0.00	0.00	0.00	0.69	0.24
SC66	11.9	0.00	0.33	0.32	0.00	0.00	0.01	0.00	0.32	0.00	0.00	0.00	0.55	0.00
SC67	11.9	0.00	0.43	0.38	0.00	0.00	0.05	0.00	0.38	0.00	0.00	0.00	0.76	0.00
SC69	11.9	0.00	0.42	0.42	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.86	0.00
SC74	11.9	0.00	0.36	0.36	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.58	0.00
SC77	11.9	0.00	0.39	0.39	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.73	0.00
SC79	11.9	0.00	0.81	0.81	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.87	0.00
SC804	11.9	0.00	1.52	0.87	0.00	0.00	0.15	0.00	0.50	0.00	0.00	0.00	0.83	0.87
SC82	11.9	0.00	0.64	0.64	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.65	0.00
SC85	11.9	0.00	0.13	0.13	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.60	0.00
SC86	11.9	0.00	0.13	0.13	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.70	0.00
SC88	11.9	0.00	0.60	0.60	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.74	0.00
SC90	11.9	0.00	0.42	0.33	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.33
SC99	11.9	0.00	0.31	0.31	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.83	0.00
Maximum (lb/gal)	11.90	0.00	2.04	1.63	5.95	0.60	0.40	7.14	0.90	1.19	0.60	0.27	0.94	1.63

Emission Rate (lb/hr)	0.0E+00	4.1E-01	3.3E-01	1.2E+00	8.3E-04	8.1E-02	1.4E+00	1.8E-01	1.7E-03	1.2E-01	5.5E-02	1.9E-01	3.3E-01
IDAPA TAP EL (lb/hr)				4.73E+01	2.3E-01	2.90E+01	1.57E+01	1.37E+01	6.67E-01	3.50E+01	2.50E+01	8.20E+00	2.90E+01
Below EL?				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating: BASF Hardeners

Content Weight %																	
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Aromatic Hydrocarbon	Butyl Acetate	Carbon Black (particulate)	Diisobutyl Ketone	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethyl Acetate	Hexamethylene Diisocyanate (HDI)(HAP)	Isophorone Diisocyanate Polymer	Methyl Acetate	Methyl Amyl Ketone	Toluene (HAP)	1,2,4 Trimethyl Benzene
DH-16	8.5	56%			1.00%	25.00%	0.60%			1.00%		0.45%	0.20%				3%
DH-18	8.5	56%				20.00%						0.45%	0.20%				
DH-42	8.87	72%				20.00%						0.75%				13.50%	
DH-55	8.16	38%				20.00%		5.00%			15.00%	0.40%	0.10%	20.00%	5.00%	10.00%	
DH-57	8.25	38%				15.00%		5.00%	0.10%			0.40%	0.10%	20.00%			6.30%
DH-59	8.3	38%				5.00%		5.00%				0.40%	0.10%	20.00%			10.00%
DH-62	8.44	55%				35.00%			0.20%			0.60%				13.40%	
Content lb/gal																	
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Aromatic Hydrocarbon	Butyl Acetate	Carbon Black (particulate)	Diisobutyl Ketone	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethyl Acetate	Hexamethylene Diisocyanate (HDI)(HAP)	Isophorone Diisocyanate Polymer	Methyl Acetate	Methyl Amyl Ketone	Toluene (HAP)	1,2,4 Trimethyl Benzene
DH-16	8.5	4.76	0.04	0.04	0.09	2.13	0.05	0.00	0.00	0.09	0.00	0.04	0.02	0.00	0.00	0.00	0.21
DH-18	8.5	4.76	0.04	0.04	0.00	1.70	0.00	0.00	0.00	0.00	0.00	0.04	0.02	0.00	0.00	0.00	0.00
DH-42	8.87	6.39	1.26	1.20	0.00	1.77	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	1.20	0.00
DH-55	8.16	3.10	0.85	0.82	0.00	1.63	0.00	0.41	0.00	0.00	1.22	0.03	0.01	1.63	0.41	0.82	0.00
DH-57	8.25	3.14	0.04	0.03	0.00	1.24	0.00	0.41	0.01	0.00	0.00	0.03	0.01	1.65	0.00	0.00	0.52
DH-59	8.3	3.15	0.03	0.03	0.00	0.42	0.00	0.42	0.00	0.00	0.00	0.03	0.01	1.66	0.00	0.00	0.83
DH-62	8.44	4.64	1.20	1.13	0.00	2.95	0.00	0.00	0.02	0.00	0.00	0.05	0.00	0.00	0.00	1.13	0.00
Maximum (lb/gal)	8.87	6.39	1.26	1.20	0.09	2.95	0.05	0.42	0.02	0.09	1.22	0.07	0.02	1.66	0.41	1.20	0.83
Emission Rate (lb/hr)		8.9E-03	2.5E-01	2.4E-01	1.7E-02	5.9E-01	7.1E-05	8.3E-02	3.4E-03	1.7E-02	2.4E-01	2.0E-03	5.1E-04	3.3E-01	8.2E-02	2.4E-01	1.7E-01
IDAPA TAP EL (lb/hr)						4.73E+01	2.3E-01	9.67E+00	2.90E+01		9.33E+01	2.0E-03	6.0E-03	4.1E+01	1.57E+01	2.50E+01	8.20E+00
Below EL?						Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)														
4.00	24	65.00%	98.00%														
Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)															
85.00%	1,460.0	1.20															

Coating: BASF Surface Prep

Content Weight %																
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Acetone	n-Butyl Alcohol	Dipropylene Glycol Methyl Ether	Ethyl Benzene (HAP)	Isobutanol	Isopropyl Alcohol (IPA)	1-Methoxy-2-Propanol Acetate	Methyl Amyl Ketone	Methyl Isobutyl Ketone (MIBK)(HAP)	Stoddard Solvent Mineral Spirits	1,2,4 Trimethyl Benzene	Xylene (HAP)
DE17		55%			10%	6.80%		5.50%	10.00%		10.00%					24.60%
DE18		18%							24.10%	45.00%			19.50%			
902		0%				36.00%	15.00%					10.00%		50.00%	2.00%	

Content lb/gal																
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Acetone	n-Butyl Alcohol	Dipropylene Glycol Methyl Ether	Ethyl Benzene (HAP)	Isobutanol	Isopropyl Alcohol (IPA)	1-Methoxy-2-Propanol Acetate	Methyl Amyl Ketone	Methyl Isobutyl Ketone (MIBK)(HAP)	Stoddard Solvent Mineral Spirits	1,2,4 Trimethyl Benzene	Xylene (HAP)
DE17	9.17	5.04	2.76	2.26	0.92	0.62	0.00	0.50	0.92	0.00	0.92	0.00	0.00	0.00	0.00	2.26
DE18	7.37	1.33	1.44	1.44	0.00	0.00	0.00	0.00	1.78	3.32	0.00	0.00	1.44	0.00	0.00	0.00
902	6.74	0.00	0.00	0.00	0.00	2.43	1.01	0.00	0.00	0.00	0.00	0.67	0.00	3.37	0.13	0.00

Maximum (lb/gal)	9.17	5.04	2.76	2.26	0.92	2.43	1.01	0.50	1.78	3.32	0.92	0.67	1.44	3.37	0.13	2.26
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Emission Rate (lb/hr)		7.1E-03	5.5E-01	4.5E-01	1.8E-01	4.9E-01	2.0E-01	1.0E-01	3.6E-01	6.6E-01	1.8E-01	1.3E-01	2.9E-01	6.7E-01	2.7E-02	4.5E-01
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IDAPA TAP EL (lb/hr)					1.19E+02	1.00E+01		2.90E+01	1.0E+01	6.53E+01	2.40E+01	1.57E+01	1.37E+01	3.50E+01	8.20E+00	2.90E+01
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Below EL?					Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
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Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating: BASF Clearcoat

Content Weight %																	
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Acetone	Butyl Acetate	Diisobutyl Ketone	Ethyl Benzene (HAP)	Ethyl Acetate	Isobutyl Acetate	Isopropyl Alcohol (IPA)	Methyl Acetate	Methyl Amyl Ketone	Methyl Ethyl Ketone (MEK)(HAP)	Methyl Isoamyl Ketone	Methyl Isobutyl Ketone (MIBK)(HAP)	Methyl Propyl Ketone
DC76NR		35%			25%			1.10%								35.00%	
DC92		48%			10.00%			0.60%								40.00%	
DC98		35%						1.10%									
DC100Z		14%			10.00%	5.00%				5.00%	11.40%			10.00%			
DC5100		40%			20.00%			0.90%								35.00%	2.60%
DC5120		32%			25.00%			0.10%								20.00%	1.90%
DC5300		56%			5.00%	10.00%										15.00%	
DC5335		43%			20.00%											30.00%	1.20%
DC5600		46%			20.00%	15.00%		0.40%	10.00%			10.00%				15.00%	1.20%
DC5750		38%						2.10%									10.00%
DC5775		38%			15.00%	10.00%		0.30%				10.00%					3.10%
DC5800		37%			10.00%								10.00%				

Content lb/gal																	
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Acetone	Butyl Acetate	Diisobutyl Ketone	Ethyl Benzene (HAP)	Ethyl Acetate	Isobutyl Acetate	Isopropyl Alcohol (IPA)	Methyl Acetate	Methyl Amyl Ketone	Methyl Ethyl Ketone (MEK)(HAP)	Methyl Isoamyl Ketone	Methyl Isobutyl Ketone (MIBK)(HAP)	Methyl Propyl Ketone
DC76NR	7.58	2.65	0.98	0.46	1.90	0.00	0.00	0.08	0.00	0.00	0.00	0.00	2.65	0.00	0.00	0.43	0.00
DC92	8	3.84	0.43	0.38	0.80	0.00	0.00	0.05	0.00	0.00	0.00	0.00	3.20	0.00	0.00	0.00	0.00
DC98	10.06	3.52	0.11	0.11	0.00	0.00	0.00	0.11	0.00	0.00	1.15	0.00	0.00	0.00	0.00	0.00	0.00
DC100Z	7.33	1.03	3.14	2.08	0.73	0.37	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.73	0.00	0.00	0.00
DC5100	7.78	3.11	0.71	0.44	1.56	0.00	0.00	0.07	0.00	0.00	0.00	0.00	2.72	0.00	0.00	0.20	0.00
DC5120	8.51	2.72	0.28	0.16	2.13	0.00	0.00	0.01	0.00	0.00	0.00	0.00	1.70	0.00	0.00	0.16	0.00
DC5300	8.2	4.59	0.02	0.02	0.41	0.82	0.00	0.00	0.00	0.41	0.00	0.00	1.23	0.00	0.00	0.00	0.00
DC5335	7.85	3.38	0.24	0.15	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.79	2.36	0.00	0.39	0.09	0.00
DC5600	7.88	3.62	0.25	0.13	1.58	0.00	0.00	0.03	0.79	0.00	0.00	0.79	1.18	0.00	0.00	0.09	0.79
DC5750	8.07	3.07	1.37	0.95	0.00	3.23	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00
DC5775	9.26	3.52	0.16	0.13	1.39	0.93	0.00	0.03	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00	0.00
DC5800	9.48	3.51	0.00	0.00	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00

Maximum (lb/gal)	10.06	4.59	3.14	2.08	2.13	3.23	0.00	0.17	0.79	0.37	1.15	0.93	3.20	0.73	0.39	0.43	0.79
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Emission Rate (lb/hr)		6.4E-03	6.3E-01	4.2E-01	4.3E-01	6.5E-01	0.0E+00	3.4E-02	1.6E-01	1.1E-02	2.3E-01	1.9E-01	6.4E-01	1.5E-01	7.9E-02	8.6E-02	1.6E-01
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IDAPA TAP EL (lb/hr)					1.19E+02	4.73E+01	9.67E+00	2.90E+01	9.33E+01	4.7E+01	6.53E+01	4.1E+01	1.57E+01	3.93E+01	1.60E+01	1.37E+01	4.67E+01
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Below EL?					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
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Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating: BASF Clearcoat

Content Weight %											
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Naphthalene (HAP)	Propylene Glycol Monomethyl Ether Acetate	Silica Amorphous (particulate)	Toluene (HAP)	1,2,4 Trimethyl Benzene	VM&P Naphtha	Xylene (HAP)
DC76NR		35%									6.10%
DC92		48%									4.80%
DC98		35%									
DC100Z		14%				15.00%		28.40%		15.00%	4.40%
DC5100		40%									5.60%
DC5120		32%									1.30%
DC5300		56%			0.20%				9.20%		
DC5335		43%									1.90%
DC5600		46%									1.60%
DC5750		38%					10.00%				11.80%
DC5775		38%					10.00%				1.40%
DC5800		37%									

Content lb/gal											
Coating Material	Density	Solids (particulate)	HAP _o	HAP _{MAX}	Naphthalene (HAP)	Propylene Glycol Monomethyl Ether Acetate	Silica Amorphous (particulate)	Toluene (HAP)	1,2,4 Trimethyl Benzene	VM&P Naphtha	Xylene (HAP)
DC76NR	7.58	2.65	0.98	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.46
DC92	8	3.84	0.43	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.38
DC98	10.06	3.52	0.11	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DC100Z	7.33	1.03	3.14	2.08	0.00	1.10	0.00	2.08	0.00	1.10	0.32
DC5100	7.78	3.11	0.71	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.44
DC5120	8.51	2.72	0.28	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.11
DC5300	8.2	4.59	0.02	0.02	0.02	0.00	0.00	0.00	0.75	0.00	0.00
DC5335	7.85	3.38	0.24	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.15
DC5600	7.88	3.62	0.25	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.13
DC5750	8.07	3.07	1.37	0.95	0.00	0.00	0.81	0.00	0.00	0.00	0.95
DC5775	9.26	3.52	0.16	0.13	0.00	0.00	0.93	0.00	0.00	0.00	0.13
DC5800	9.48	3.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Maximum (lb/gal)	10.06	4.59	3.14	2.08	0.02	1.10	0.93	2.08	0.75	1.10	0.95
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Emission Rate (lb/hr)	6.4E-03	6.3E-01	4.2E-01	3.3E-03	2.2E-01	1.3E-03	4.2E-01	1.5E-01	2.2E-01	1.9E-01
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IDAPA TAP EL (lb/hr)				3.33E+00		6.67E-01	2.50E+01	8.20E+00	9.13E+01	2.90E+01
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Below EL?				Yes		Yes	Yes	Yes	Yes	Yes
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Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating: Bed Liner Components

Coating Material	Density	Content Weight %	Hexamethylene Diisocyanate (HDI)(HAP)	Methylene Diisocyanate (MDI)(HAP)
BASF XS-310				39.00%
Vortex				60.00%
Rhino 2170 A				60.00%
Monstaliner			0.10%	
Morton 999623			0.35%	
Speedliner 1000				9.66%
Speedliner Primer 450 & 460				11.09%
Langeman 700 A				15.00%

Coating Material	Density	Solids (particulate)	Hexamethylene Diisocyanate (HDI)(HAP)	Methylene Diisocyanate (MDI)(HAP)
BASF XS-310	9.80	0.00	0.00	3.82
Vortex	8.12	0.00	0.00	4.87
Rhino 2170 A	10.33	0.00	0.00	6.20
Monstaliner	9.77	0.00	0.01	0.00
Morton 999623	9.58	0.00	0.03	0.00
Speedliner 1000	8.33	0.00	0.00	0.80
Speedliner Primer	8.33	0.00	0.00	0.92
Langeman 700 A	9.10	0.00	0.00	1.37
Maximum (lb/gal)	10.33	0.00	0.03	6.20

Emission Rate (lb/hr)	0.0E+00	1.0E-03	see "iso" MDI sheet
IDAPA TAP EL (lb/hr)		2.0E-03	
Below EL?		Yes	

Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)
4.00	24	65.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating: Bed Liner "Iso" Component (MDI-Based)

$$L_{sp} = (V_{air}/359) * (273.15/T_{sp}) * 60 * (C_{MDI}/1000000) * MW * k_{MDI} * t_{sp}$$

where:

L_{sp} = the annual emissions for spray coating operations	24.77	lb/yr ¹
V_{air} = the exhaust airflow rate	10,000	ft ³ /min
359 = the molar volume of an ideal gas	359	ft ³ /lbmol @ 0°C and 1-atm
T_{sp} = the spray temperature	308.15	K
C_{MDI} = $(VP_{MDI}/760) \times 10^6$ = the MDI concentration in the exhaust air	0.0458	ppmv
VP_{MDI} = MDI vapor pressure at exhaust temperature	3.48E-05	mmHg ²
MW = the molecular weight of MDI (250.26)	250.26	lb/lbmol
k_{MDI} = the adjustment factor to the vapor pressure that is a function of MDI concentration i	1.00	
t_{sp} = hr/day x 365 day/yr = is the total time in hours/year that spray coating is occurring	1460	hr/yr
t_{hr} = is the total time in hours/day that spray coating is occurring	4	hr/day
T = the spray temperature	95	°F

Emission Rate (lb/hr, 24-hr average)

2.83E-03

**IDAPA TAP EL
(lb/hr)**

3.00E-03

Below EL?

Yes

Coating: Bed Liner Components

Content Weight %							
Coating Material	Density	Solids (particulate)	HAP _{TOT}	HAP _{MAX}	Diethyl toluene diamine (DETA)	Dipropylene Glycol Methyl Ether	Polyether Polyols
BASF XS-350 Resin					25.00%		70.00%
Rhino 2170 B					5.00%	60.00%	
Rhino Duraspray B							
Langeman Reflex Colorant					20.00%		80.00%
Langeman 700 B					20.00%		80.00%
Langeman Reflex 700RA							100.00%

Content lb/gal							
Coating Material	Density	Solids (particulate)	HAP _{TOT}	HAP _{MAX}	Diethyl toluene diamine (DETA)	Dipropylene Glycol Methyl Ether	Polyether Polyols
BASF XS-350 Res	8.39	0.00	0.00	0.00	2.10	0.00	5.87
Rhino 2170 B	8.83	0.00	0.00	0.00	0.44	5.30	0.00
Rhino Duraspray B	8.66	0.00	0.00	0.00	0.00	0.00	0.00
Langeman Reflex (8.58	0.00	0.00	0.00	1.72	0.00	6.86
Langeman 700 B	8.58	0.00	0.00	0.00	1.72	0.00	6.86
Langeman Reflex ;	8.41	0.00	0.00	0.00	0.00	0.00	8.41

Maximum (lb/gal) 9.77 0.00 0.00 0.00 2.10 5.30 8.41

Emission Rate (lb/hr) 0.0E+00 0.0E+00 0.0E+00 4.2E-01 1.1E+00 1.7E+00

IDAPA TAP EL (lb/hr)

Below EL?

Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

General PTC

Automotive Coating

Emission Inventory - spray booth heater emissions for natural gas combustion, AP-42 Section 1.4 (7/98)

Heat Input Capacity:
10.00 MMBtu/hr

Operating Assumptions:
24 hr/day
2,080 hr/yr
1,020 MMBtu/MMscf

Fuel Use:
9 80E-03 MMscf/hr
0 235 MMscf/day
20 39 MMscf/yr

Criteria Air Pollutants	Emission Factor	Emissions		Modeling Threshold		Below Threshold?	Modeling Threshold		Below Threshold?
		lb/MMscf	lb/hr	T/yr	2002 Guidance		Case-by-Case		
NO ₂	94	9 22E-01	9 58E-01	1	T/yr	Yes	7	T/yr	Yes
CO	40	3 92E-01	4 08E-01	14	lb/hr	Yes	70	lb/hr	Yes
PM ₁₀	7 6	7 45E-02	7 75E-02	0 2	lb/hr	Yes	0 9	lb/hr	Yes
SO _x	0 6	5 88E-03	6 12E-03	1	T/yr	Yes	7	T/yr	Yes
				0 2	lb/hr	Yes	0 9	lb/hr	Yes
VOC	5 5	5 39E-02	5 61E-02	40	T/yr	Yes	7	T/yr	Yes
			5 10E-06	0 6	T/yr	Yes			
Lead	0 0005	4 90E-06	lb/mo						
			3 65E-03	10	lb/mo	Yes			

Note: 100 lb/mo Pb in guidance reduced by factor of 10 based on latest Pb NAAQS (reduced in 2008 from 1 5 ug/m3 to 0 15 ug/m3)

Hazardous Air Pollutants (HAP) and Toxic Air Pollutants (TAP)				Modeling Threshold	Below Threshold?
	lb/MMscf	lb/hr	T/yr	EL (lb/hr)	
Organic HAP PAH					
2-Methylnaphthalene	2 40E-05	5 59E-08	5 81E-08	9 10E-05	Yes
3-Methylchloranthrene	1 80E-06	4 19E-09	4 36E-09	2 50E-06	Yes
Acenaphthene	1 80E-06	4 19E-09	4 36E-09	9 10E-05	Yes
Acenaphthylene	1 80E-06	4 19E-09	4 36E-09	9 10E-05	Yes
Anthracene	2 40E-06	5 59E-09	5 81E-09	9 10E-05	Yes
Benzo(a)anthracene	1 80E-06	4 19E-09	4 36E-09	9 10E-05	See POM
Benzo(a)pyrene	1 20E-06	2 79E-09	2 91E-09	2 00E-06	See POM
Benzo(b)fluoranthene	1 80E-06	4 19E-09	4 36E-09		See POM
Benzo(g,h,i)perylene	1 20E-06	2 79E-09	2 91E-09	9 10E-05	Yes
Benzo(k)fluoranthene	1 80E-06	4 19E-09	4 36E-09		See POM
Chrysene	1 80E-06	4 19E-09	4 36E-09		See POM
Dibenzo(a,h)anthracene	1 20E-06	2 79E-09	2 91E-09		See POM
Dichlorobenzene	1 20E-03	2 79E-06	2 91E-06	9 10E-05	Yes
Fluoranthene	3 00E-06	6 98E-09	7 26E-09	9 10E-05	Yes
Fluorene	2 80E-06	6 52E-09	6 78E-09	9 10E-05	Yes
Indeno(1,2,3-cd)pyrene	1 80E-06	4 19E-09	4 36E-09		See POM
Naphthalene	6 10E-04	1 42E-06	1 48E-06	3 33	Yes
Naphthalene	6 10E-04	1 42E-06	1 48E-06	9 10E-05	Yes
Phenanthrene	1 70E-05	3 96E-08	4 12E-08	9 10E-05	Yes
Pyrene	5 00E-06	1 16E-08	1 21E-08	9 10E-05	Yes
Polycyclic Organic Matter (POM, 7-PAH Group)		2 65E-08	2 76E-08	2 00E-06	Yes
Organic HAP Non-PAH					
Benzene	2 10E-03	4 89E-06	5 08E-06	8 00E-04	Yes
Formaldehyde	7 50E-02	1 75E-04	4 15E-05	5 10E-04	Yes
Hexane	1 80E+00	1 76E-02	4 19E-03	12	Yes
Toluene	3 40E-03	3 33E-05	7 91E-06	25	Yes
Organic Non-HAP					
7,12-Dimethylbenz(a)anthracene	1 60E-05	1 57E-07	3 72E-08		
Butane	2 10E+00	2 06E-02	4 89E-03		
Ethane	3 10E+00	3 04E-02	7 22E-03		
Pentane	2 60E+00	2 55E-02	6 05E-03	118	Yes
Propane	1 60E+00	1 57E-02	3 72E-03		
Metal HAP					
Arsenic	2 00E-04	4 66E-07	1 11E-07	1 50E-06	Yes
Barium	4 40E-03	4 31E-05	1 02E-05	0 033	Yes
Beryllium	1 20E-05	2 79E-08	6 63E-09	2 80E-05	Yes
Cadmium	1 10E-03	2 56E-06	6 08E-07	3 70E-06	Yes
Chromium	1 40E-03	1 37E-05	3 26E-06	0 033	Yes
Cobalt	8 40E-05	8 24E-07	1 96E-07	0 0033	Yes
Copper	8 50E-04	8 33E-06	1 98E-06	0 013	Yes
Manganese	3 80E-04	3 73E-06	8 85E-07	0 067	Yes
Mercury	2 60E-04	2 55E-06	6 05E-07	0 003	Yes
Molybdenum	1 10E-03	1 08E-05	2 56E-06	0 333	Yes
Nickel	2 10E-03	4 89E-06	1 16E-06	2 70E-05	Yes
Selenium	2 40E-05	2 35E-07	5 59E-08	0 013	Yes
Vanadium	2 30E-03	2 25E-05	5 35E-06	0 003	Yes
Zinc	2 90E-02	2 84E-04	6 75E-05	0 667	Yes

NOTE: TAP emissions are based on 24-hour averages unless shown in bold, which are based on annual averages.