SAFETY DATA SHEET

Polymeric Engineered Solutions

Pes METAL PRIMER BLACK PT A-PAIL KT

Date Printed: 6/21/2017

1. Product and Company Identification

Product Name PES METAL PRIMER BLACK PT A-PAIL KT
Product Code 600K01-PLKIT
Recommended Use: Please refer to Product Information/Technical Data Sheet.

Company Identification: Polymeric
Engineered Solutions
5401 Hwy 21 West
Bryan, TX 77803

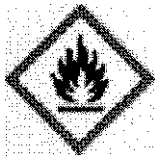
Information Phone: 979-779-8700
Emergency Phone: ChemTel 800-255-3924

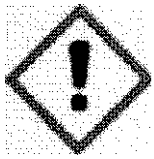
2. Hazards Identification

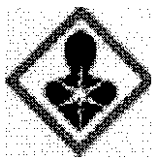
EMERGENCY OVERVIEW

WARNING
Flammable Liquid & Vapor, Category 3
Acute Toxicity, Category 4
Skin Irritation, Category 2
Eye Irritation, Category 2B

Chronic Toxicity, Aspiration Hazard, Category 1
Chronic Toxicity, (Carcinogenicity) Category 2







Potential Health Effects
Eye:
Can cause eye irritation.

Skin:
Causes skin irritation.
Ingestion:
If swallowed, call a poison control center or physician if you feel unwell.
Rinse mouth.
Inhalation:
May cause drowsiness or dizziness.
Chronic (Cancer) Information:
Contains CARBON BLACK, which is listed by the IARC as a Group 2B (possibly carcinogenic to humans). Not listed as a carcinogen by NTP, ACGIH, OSHA or the European Union. There are no known human carcinogenic effects related to the PAH content in carbon blacks. Recent research has shown that the PAH content of carbon blacks is not released in biological fluids and thus not available for biological activity. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probably, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to **0.1% is identified as a carcinogen or** potential carcinogen by ACGIH.

OSHA: No component of this product present at levels greater than or equal to **0.1% is identified as a carcinogen or** potential carcinogen by OSHA.

NTP: No component of this product present at levels greater than or equal to **0.1% is identified as a known or** anticipated carcinogen by NTP.

Teratology (Birth Defects) Information:
INFORMATION NOT AVAILABLE.
Reproduction Information:
INFORMATION NOT AVAILABLE.
Aggravation of Pre-Existing Conditions:
Dermititis or other skin conditions.

3. Composition/Information on Ingredients

Component	CAS#	% **by Wt.**
NEPHELINE SYENITE OSHA: 5MG/M3 TWA (RESPIRABLE FRACTION) ACGIH: 10 MG/M3 TWA (INHALABLE FRACTION) MSHA 5 MG/M3 TWA (RESPIRABLE FRACTION)	37244-96-5	41
TALC OSHA: 2 MG/M3 ACGIH: 2 MG/M3	14807-96-6	**11**

MAGNESITE OSHA: 5 MG/M3 (RESP DUST) ACGIH: 10 MG/M3 (RESP DUST)	546-93-0	7
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC OSHA PEL: 500 PPM (2000 MG/M3) ACGIH TLV: 200 MG/M3 (AS TOTAL HYDROCARBON VAPOR)	64742-95-6	5
METHYL NORMAL AMYL KETONE OSHA PEL 100 PPM - TWA OSHA VPEL 100 PPM -TWA ACGIH TLV 50 PPM - TWA ACGIH TLV 233 MG/M3 - TWA	110-43-0	5
EPOXY RESIN	25036-25-3	5
1-METHOXY 2-PROPANOL ACGIH: 100 PPM TWA OSHA: 100 PPM TWA ACGIH: 150 PPM STEL OSHA: 150 PPM CEILING	107-98-2	4
CARBON BLACK, AMORPHOUS ACGIH TLV: 3.5 MG/M3 TWA OSHA PEL: 3.5 MG/M3 TWA	1333-86-4	.290
ETHYL BENZENE ACGIH TLV 100 PPM - TWA OSHA PEL 100 PPM - TWA OSHA PEL 100 PPM - TWA OSHA PEL 125 PPM - CEILING	100-41-4	.097

4. First Aid Measures

Eyes:
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue **rinsing.**

If eye irritation persists: Get medical advice/attention.

Skin:
If on skin: wash with plenty of soap & water. If skin irritation occurs: Get Medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Ingestion:
If swallowed: Immediately call a poison center/physician.
Do NOT induce vomiting.

Inhalation:
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a poison control center/get medical attention if you feel unwell.

Note to Physicians:
Aspiration hazard - do not induce vomiting

5. Fire Fighting Measures

Flammable Properties:
Flash Point: >100 F Method: TCC
Explosive Limits:
Lower explosive limit: 1.0
Upper explosive limit: 13.8

Autoignition Temperature:
INFORMATION NOT AVAILABLE.
Hazardous Combustion Products:
Smoke, soot and carbon dioxide, carbon monoxide.
Extinguishing Media:
Dry chemical, CO2, Halon, Foam
Firefighting Procedures:
Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.
Unusual Fire and Explosion Hazards: High temperatures can cause sealed containers to rupture due to a build up of internal pressure. Cool with water spray. Vapors are heavier than air and can travel some distance away and flash back.
Sensitivity to Static Discharge: Material may accumulate a static charge which could act as an ignition source.
Precautions should be taken when pouring to minimize splash/free fall.

6. Accidental Release Measures

Small Spill:
See Information for Large Spill, below:
Large Spill:
Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental Precautions:
INFORMATION NOT AVAILABLE.
Methods/Materials for Containment and Cleaning Up:
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/state/federal regulations.

7. Handling and Storage

Handling:
Keep away from heat, sparks, open flames, hot surfaces. NO SMOKING. Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/processing equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/eye protection/face protection.

Storage:
Prevent unauthorized access.
Store in a well ventilated place.
Keep container tightly closed.
Keep cool.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:
SEE SECTION 3 FOR THIS INFORMATION
Engineering Controls:
Ventilation: Good general ventilation (typically 10 air changes per hour) should be used.
Ventilation rates should be matched to conditions.
Ventilation should be explosion proof.
Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special
circumstances such as poorly ventilated spaces, spray painting, mechanical generation of dusts, heating, drying, etc.

Personal Protective Equipment

Respiratory Protection:
If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 CFR 1152, January 8, 1998. Respirator type: Organic Vapor.

Skin Protection:
Wear impervious gloves to prevent skin contact.
Recommended Decontamination Facilities: eye bath, washing facilities, safety **shower.**

Eye Protection:
Chemical safety goggles or glasses with side shields.

9. Physical and Chemical Properties

Boiling Point: 248 F

Melting Point:
INFORMATION NOT AVAILABLE.
Freezing Point: -63F

Vapor Pressure:
Information not available for mixture
Vapor Density:
HEAVIER THAN AIR
Solubility in Water:
NEGLIGIBLE
Evaporation Rate: SLOWER THAN ETHER

Specific Gravity: 1.64

Weight per Gallon: 13.654 lb/gl

coating VOE: 2.02 lb/gl

Material VOE: 2.02 lb/gl

Odor:
Mild solvent odor.
Appearance:
Liquid.
Partition Coefficient:
INFORMATION NOT AVAILABLE.

10. Stability and Reactivity

Chemical Stability (Conditions to Avoid):
Stable under normal storage/use conditions.
Incompatibility:
Avoid strong oxidizing agents, acids and alkalies.
Hazardous Decomposition Products:
INFORMATION NOT AVAILABLE.
Hazardous Polymerization:
Will not occur under normal conditions.

11. Toxicological Information

Eye Irritation/Damage:
Component 100-41-4:

Mild eye irritation, Category 2b

Component 37244-96-5:
Mechanical eye irritation only
Component 64742-95-6:
Mild eye irritation, Category 2b

Skin Irritation/Damage:
Component 100-41-4:
LOSO: >2000 mg/kg, rat. Category 5

Component 37244-96-5:
LOSO: No data
Component 64742-95-6:
LOSO: >2000 mg/kg, rat. Category 5

Acute Oral Toxicity:
Component 100-41-4:
LOSO: >2000 mg/kg, rat. Category 5.

Component 1333-86-4:
LOSO: >8000 mg/kg, rat. Category 5
Component 37244-96-5:
LOSO: no data
Component .64742-95-6:
LOSO: >5000 mg/kg, rat. Category 5

Component 107-98-2:
LOSO: 7200 mg/kg, rat. Category 5

Acute Inhalation Toxicity:
Component 100-41-4:
LCSO: 2-20 mg/1, rat. Category 3

Component 64742-95-6:
LCS0: 5.6 mg/1, rat. Category 3

Respiratory/Skin Sensitization:
Component 100-41-4:
No evidence of respiratory or skin sensitization.

Component 37244-96-5:
No evidence of respiratory or skin sensitization.
Component 64742-95-6:
No evidence of respiratory or skin sensitization.

Carcinogenicity:
Component 100-41-4:
Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH

Component 1333-86-4:
Listed by IARC as a group 2B carcinogen (possibly carcinogenic to humans).
Carbon Black is not listed as a carcinogen by
NTP, OSHA or ACGIH. GHS Category 2.
Component 37244-96-5:
Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH
Component 64742-95-6:
Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH

Reproductive Toxicity:
Component 100-41-4:
No evidence of human reproductive toxicity.

Component 37244-96-5:
No evidence of human reproductive toxicity.
Component 64742-95-6:
No evidence of human reproductive toxicity.

Germ Cell Mutagenicity:
Component 100-41-4:
No data

Component 37244-96-5:
No data
Component 64742-95-6:
No data

Aspiration Toxicity:

Component 100-41-4:
Not classified as an Aspiration Hazard.
Component 37244-96-5:
Not classified as an Aspiration Hazard.
Component 64742-95-6:
Aspiration Hazard; Category 1

Component 107-98-2:
Not classified as an Aspiration Hazard.

STOT-single exposure
Component 100-41-4:
No data

Component 37244-96-5:
No data
Component 64742-95-6:
No data

Component 107-98-2:
No data

STOT-repeated exposure
Component 100-41-4:
Repeated exposure affected liver, kidneys

Component 37244-96-5:
No data
Component 64742-95-6:
Repeated exposure affected kidneys, blood, adrenal gland.

Component 107-98-2:
No data

Routes of Exposure:
Inhalation of vapors, skin/eye/mucous membrane absorption, ingestion.

12. Ecological Information

Environmental Toxicity:
Component 100-41-4:
LC50: <10 mg/1 (fish); EC50: <10 mg/1 (daphnia); EC50: <10 mg/1 (algae); EC50: <10 mg/1 (bacteria)

Component 1333-86-4:
LC50: <1000 mg/1 (fish); EC50: <5600 mg/1 (daphnia); EC50: <10,000 mg/1 (algae)
Component 37244-96-5:
No data
Component 64742-95-6:
LC50: 10 mg/1 (fish); EC50: 4.5 mg/1 (daphnia); EC50: 3.1 mg/1 (algae)

Persistance & degradability:
Component 100-41-4:
Readily biodegradable

Component 1333-86-4:
Carbon Black is essentially elemental carbon & cannot be further biodegraded by **microorganisms.**
Component 37244-96-5:
No data
Component 64742-95-6:
Readily biodegradable

Bioaccumulative potential:
Component 100-41-4:
Does not bioaccumulate
Component 1333-86-4:
Not expected to bioaccumulate.
Component 37244-96-5:
No data
Component 64742-95-6:
No Data

Mobility in soil:
Component 100-41-4:
Mobile; may. contaminate groundwater
Component 37244-96-5:
No data
Component 64742-95-6:
No data

Other Adverse Ecological Effects:
No information

Component 100-41-4:
Dissolved material evaporates rapidly - within a day from water or soil **surfaces.**

Component 37244-96-5:
Not expected to present an environmental hazard.

Component 64742-95-6:
Toxic to aquatic life with long lasting results.

13. Disposal Considerations

Waste Disposal Method:
Discharge, treatment or disposal is subject to national, state, or local laws. When a decision is made to discard this material as supplied, it meets RCRA's characteristic definition of ignitability. The toxicity characteristic (TC) has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP). Federal Regulations may apply to empty container. State and/or local regulations may be different.
Of the methods of disposal currently available, it is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability: (1) recycle or rework, if feasible; (2) incinerate at an authorized facility; or (3) treat at an acceptable waste treatment facility.

Be sure to contact the appropriate government environmental agencies if further guidance is required.

14. Transport Information

Domestic (Land, DOT), International (Water, IMO/IMDG), International (Air, ICAO) Road and Rail (ADR/RID), Air (ICAO/IATA), Vessel (IMO/IMDG):
DOT (USA) Shipping Name: Paint
UN/NA ID No: UN1263
Hazard Class: Class 3 (IATA/49CFR)
Packing Group: III

Environmental Hazards:
INFORMATION NOT AVAILABLE.
Marine Pollutant:
Components of this product do not appear on the list of Marine Pollutants (49CFR 172.101)
Special Precautions for User:
INFORMATION NOT AVAILABLE.

15. Regulatory Information

U.S. Federal Regulations:
TSCA: All components of this material are on the US TSCA B(b) Inventory or are exempt from listing.

OSHA:
This product is hazardous under OSHA's Hazard Communication Std. Not regarded as a health hazard under current legislation.

CERCLA: SARA Hazard Category:
INFORMATION NOT AVAILABLE.
Section 313:
"*" Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.
International Regulations:
Canadian WHMIS:
INFORMATION NOT AVAILABLE.
Canadian Environmental Protection Act (CEPA):
INFORMATION NOT AVAILABLE.
EINECS:
INFORMATION NOT AVAILABLE.
State Regulations:
"#" Indicates a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.
"+" Indicates a Clean Air Act Hazardous Air Pollutant (HAP).

Volatile Organic Compounds:

COATING VOC content is being expressed as mass of VOC per unit volume of coating less water and exempt solvents, where applicable.

MATERIAL VOC content is the actual weight of VOC per unit volume.

16. Other Information

Date Revised: 08/07/15

Prepared By: Regulatory Compliance

Information Contact: Regulatory Compliance 413-592-4191 ext 106

Manufacturer Disclaimer:

USERS RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions - in addition to those described herein - are required. Any health hazard and safety information herein should be passed on to your customers or employees, as the case may be.

DISCLAIMER OF LIABILITY: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. These data relate only to the specific material designated herein and do not relate to use in combination with any other material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

End of Material Safety Data Sheet

SAFETY DATA SHEET

Polymeric Engineered Solutions

PES METAL PRIMER HARDENER-BAG

Date Printed: 8/7/2015

1. Product and Company Identification

Product Name PES METAL PRIMER HARDENER-BAG
Product Code 610C05-BG
Recommended Use: Please refer to Product Information/Technical Data Sheet.

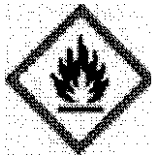
Company Identification:
Polymeric Engineered Solutions
5401 Hwy 21 West
Bryan, TX 77803

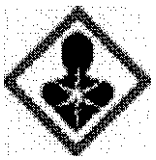
Information Phone: 979-779-8700
Emergency Phone: ChemTel 800-255-3924

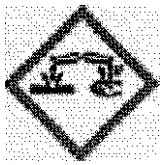
2. Hazards Identification

EMERGENCY OVERVIEW

DANGER
Flammable Liquid & Vapor, Category 3
Acute Toxicity, Category 4
Skin Irritation, Category 2
Eye Irritation, Category 2B
Chronic, Respiratory Sensitizer, Category 1; Skin Sensitizer, Category 1B
May be corrosive to metals
Causes severe skin burns and eye damage, Category 1
Chronic Toxicity, Aspiration Hazard, Category 1







Potential Health Effects
Eye:

This product is **a primary eye irritant and corrosive effects were indicated** by animal studies. **Causes eye irritation.**

Skin:

May cause moderate irritation. May cause allergic skin reactions and **sensitization. Can cause redness,** itching, and **burning sensation. Causes skin irritation.**

Ingestion:

If swallowed, call a poison control center or physician if you feel unwell. Rinse mouth.

Inhalation:

May cause an allergic respiratory response in some susceptible individuals. This response can range from mild wheezing **to a severe asthmatic type attack. May cause drowsiness or dizziness.**

Chronic (Cancer) Information:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probably, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at leveles greater than or equal to **0.1% is identified as a carcinogen or** potential carcinogen by ACGIH.

OSHA: No component of this product present at leveles greater than or equal to **0.1% is identified as a carcinogen or** potential carcinogen by OSHA.

NTP: No component of this product present at leveles greater than or equal to **0.1% is identified as a known or** anticipated carcinogen by NTP.

Teratology (Birth Defects) Information:
INFORMATION NOT AVAILABLE.
Reproduction Information:
INFORMATION NOT AVAILABLE.
Aggravation of Pre-Existing Conditions:
Dermititis or other skin conditions.

3. Composition/Information on Ingredients

Component	CAS#	% **by Wt.**
POLYMER OF c-18 UNSAT'D FATTY ACID DIMERS W/TETA & TOFA	68082-29-1	55
1-METHOXY 2-PROPANOL	107-98-2	20
ACGIH: 100 PPM TWA		
OSHA: 100 PPM TWA		
ACGIH: 150 PPM STEL		
OSHA: 150 PPM CEILING		

TOFA REACTION PRODUCTS W/TEPA	68953-36-6	13
EPOXIDIZED OLEIC ACID REACTION PRODUCTS W/TEPA	68298-14-6	4
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	64742-95-6	4
OSHA PEL: 500 PPM (2000 MG/M3)		
ACGIH TLV: 200 MG/M3 (AS TOTAL HYDROCARBON VAPOR)		
METHYL NORMAL AMYL KETONE	110-43-0	4
OSHA PEL 100 PPM - TWA		
OSHA VPEL 100 PPM -TWA		
ACGIH TLV 50 PPM - TWA		
ACGIH TLV 233 MG/M3 - TWA		

4. First Aid Measures

Eyes:
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue **rinsing.**

If eye irritation persists: Get medical advice/attention.

Skin:
If on skin: wash with plenty of soap & water. If skin irritation occurs: Get Medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Ingestion:
If swallowed: Immediately call a poison center/physician.
Do NOT induce vomiting.

Inhalation:
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a poison control center/get medical attention if you feel unwell.

Note to Physicians:
Aspiration hazard - do not induce vomiting

5. Fire Fighting Measures

Flammable Properties:
Flash Point: 89 F Method:
Explosive Limits:
Lower explosive limit: 1.0
Upper explosive limit: 13.8

Autoignition Temperature:
INFORMATION NOT AVAILABLE.
Hazardous Combustion Products:

Smoke, soot and carbon dioxide, carbon monoxide.
Extinguishing Media:
Dry chemical, CO2, Halon, Foam
Firefighting Procedures:
Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.
Unusual Fire and Explosion Hazards: High temperatures can cause sealed containers to rupture due to a build up of
internal pressure. Cool with water spray. Vapors are heavier than air and can travel some distance away and flash
back.
Sensitivity to Static Discharge: Material may accumulate a static charge which could act as an ignition source.
Precautions should be taken when pouring to minimize splash/free fall.

6. Accidental Release Measures

Small Spill:
See Information for Large Spill, below:
Large Spill:
Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to
safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental Precautions:
INFORMATION NOT AVAILABLE.
Methods/Materials for Containment and Cleaning Up:
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand earth, diatomaceous earth,
vermiculite) and place in container for disposal according to local/state/federal regulations.

7. Handling and Storage

Handling:
Keep away from heat, sparks, open flames, hot surfaces. NO SMOKING. Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/processing equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/eye protection/face protection.

Storage:
Prevent unauthorized access.
Store in a well ventilated place.

Keep container tightly closed.
Keep cool.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:
SEE SECTION 3 FOR THIS INFORMATION
Engineering Controls:
Ventilation: Good general ventilation (typically 10 air changes per hour) should be used.
Ventilation rates should be matched to conditions.
Ventilation should be explosion proof.
Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special
circumstances such as poorly ventilated spaces, spray painting, mechanical generation of dusts, heating, drying, etc.

Personal Protective Equipment

Respiratory Protection:
If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be
worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance
with OSHA Standard 63 CFR 1152, January 8, 1998. Respirator type: Organic Vapor.

Skin Protection:
Wear impervious gloves to prevent skin contact.
Recommended Decontamination Facilities: eye bath, washing facilities, safety shower.

Eye Protection:
Chemical safety goggles or glasses with side shields.

9. Physical and Chemical Properties

Boiling Point: 248 F

Melting Point:
INFORMATION NOT AVAILABLE.
Freezing Point: -63F

Vapor Pressure:
Information not available for mixture
Vapor Density:
HEAVIER THAN AIR

Solubility in Water:
NEGLIGIBLE
Evaporation Rate: SLOWER THAN ETHER

Specific Gravity: .95

Coating VOE: 2.24 lb/gl

Material VOE: 2.24 lb/gl

Odor:
Mild solvent odor.
Appearance:
Liquid.
Partition Coefficient:
INFORMATION NOT AVAILABLE.

10. Stability and Reactivity

Chemical Stability (Conditions to Avoid):
Stable under normal storage/use conditions.
Incompatibility:
Avoid strong oxidizing agents, acids and alkalies.
Hazardous Decomposition Products:
INFORMATION NOT AVAILABLE.
Hazardous Polymerization:
Will not occur under normal conditions.

11. Toxicological Information

Eye Irritation/Damage:
Components 68953-36-6 & 68298-14-6:
Serious eye damage, Category 1
Component 64742-95-6:
Mild eye irritation, Category 2b

Skin Irritation/Damage:
Components 68953-36-6 & 68298-14-6:
LOSO: 1700 mg/kg, rat. Category 4
Extremely corrosive to skin, Category lB
Component 64742-95-6:
LOSO: >2000 mg/kg, rat. Category 5

Component 68082-29-1:
LOSO: >2000 mg/kg
Moderate skin irritation, may cause sensitization by skin contact.

Acute Oral Toxicity:
Components 68953-36-6 & 68298-14-6:
LD50: 1200-1600, rat. Category 4.
Component 64742-95-6:
LD50: >5000 mg/kg, rat. Category 5

Component 68082-29-1:
LD50: >2000 mg/kg, rat. Not categorized.
Component 107-98-2:
LD50: 7200 mg/kg, rat. Category 5

Acute Inhalation Toxicity:
Components 68953-36-6 & 68298-14-6:
No data
Component 64742-95-6:
LC50: 5.6 mg/1, rat. Category 3

Respiratory/Skin Sensitization:
Components 68953-36-6 & 68298-14-6:
May cause skin sensitization and/or respiratory sensitization, RESULTING IN ALLERGIC RESPIRATORY REACTIONS INCLUDING
WHEEZING, SHORTNESS OF BREATH AND DIFFICULTY BREATHING.
Component 64742-95-6:
No evidence of respiratory or skin sensitization.

Component 68082-29-1:
May cause skin sensitization and/or respiratory sensitization, RESULTING IN ALLERGIC RESPIRATORY REACTIONS INCLUDING
WHEEZING, SHORTNESS OF BREATH AND DIFFICULTY BREATHING.

Carcinogenicity:
Components 68953-36-6 & 68298-14-6:
Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH
Component 64742-95-6:
Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH

Reproductive Toxicity:
Components 68953-36-6 & 68298 14-6:
No data.
Component 64742-95-6:
No evidence of human reproductive toxicity.

Germ Cell Mutagenicity:
Components 68953-36-6 & 68298-14-6:
No data
Component 64742-95-6:
No data

Aspiration Toxicity:
Components 68953-36-6 & 68298-14-6:
Not classified as an Aspiration Hazard.
Component 64742-95-6:
Aspiration Hazard; Category 1

Component 107-98-2:
Not classified as an Aspiration Hazard.

STOT-single exposure
Components 68953-36-6 & 68298-14-6:
No data
Component 64742-95-6:
No data

Component 107-98-2:
No data

STOT-repeated exposure
Components 68953-36-6 & 68298-14-6:
No data
Component 64742-95-6:
Repeated exposure affected kidneys, blood, adrenal gland.

Component 107-98-2:
No data

Routes of Exposure:
Inhalation of vapors, skin/eye/mucous membrane absorption, ingestion.

12. Ecological Information

Environmental Toxicity:

Components 68953-36-6 & 68298-14-6:
No data
Component 64742-95-6:
LC50: 10 mg/1 (fish); EC50: 4.5 mg/1 (daphnia); EC50: 3.1 mg/1 (algae)

Persistance & degradability:
Components 68953-36-6 & 68298-14-6:
No data
Component 64742-95-6:
Readily biodegradable

Bioaccumulative potential:
Components 68953-36-6 & 68298-14-6:
No data
Component 64742-95-6:
No Data

Mobility in soil:
Components 68953-36-6 & 68298-14-6:
No data
Component 64742-95-6:
No data

Other Adverse Ecological Effects:
No information

Component 64742-95-6:
Toxic to aquatic life with long lasting results.

13. Disposal Considerations

Waste Disposal Method:
Discharge, treatment or disposal is subject to national, state, or local laws. When a decision is made to discard this material as supplied, it meets RCRA's characteristic definition of ignitability. The toxicity characteristic (TC) has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP). Federal Regulations may apply to empty container. State and/or local regulations may be different.
Of the methods of disposal currently available, it is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability: (1) recycle or rework, if feasible; (2) incinerate at an authorized facility; or (3) treat at an acceptable waste treatment facility.
Be sure to contact the appropriate government environmental agencies if further guidance is required.

14. Transport Information

Domestic (Land, DOT), International (Water, IMO/IMDG), International (Air, ICAO) Road and Rail (ADR/RID), Air (ICAO/IATA), Vessel (IMO/IMDG):
DOT (USA) Shipping Name: Paint Related Material
UN/NA ID No: UN1263
Hazard Class: Class 3 (IATA/49CFR)
Packing Group: III

Environmental Hazards:
INFORMATION NOT AVAILABLE.
Marine Pollutant:
Components of this product do not appear on the list of Marine Pollutants (49CFR 172.101)
Special Precautions for User:
INFORMATION NOT AVAILABLE.

15. Regulatory Information

U.S. Federal Regulations:
TSCA: All components of this material are on the US TSCA 8(b) Inventory or are exempt from listing.

OSHA:

This product is hazardous under OSHA's Hazard Communication Std. as a health hazard under current legislation. Not regarded

CERCLA: SARA Hazard Category:
INFORMATION NOT AVAILABLE.

Section 313:

"*" Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

International Regulations:

Canadian WHMIS:

INFORMATION NOT AVAILABLE.

Canadian Environmental Protection Act (CEPA):

INFORMATION NOT AVAILABLE.

EINECS:

INFORMATION NOT AVAILABLE.

State Regulations:
INFORMATION NOT AVAILABLE.

Volatile Organic Compounds:

COATING VOC content is being expressed as mass of VOC per unit volume of coating less water and exempt solvents, where applicable.

MATERIAL VOC content is the actual weight of VOC per unit volume.

16. Other Information

Date Revised: 08/07/15
Prepared By: Regulatory Compliance
Information Contact: Regulatory Compliance 413-592-4191 ext 106
Manufacturer Disclaimer:
USERS RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions - in addition to those described herein - are required. Any health hazard and safety information herein should be passed on to your customers or employees, as the case may be.

DISCLAIMER OF LIABILITY: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No

representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. These data relate only to the specific material designated herein and do not relate to use in combination with any other material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

End of Material Safety Data Sheet