Polymeric Engineered Solutions

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1. Product and Company Identification

Product Name : PES 250 BLACK - GALLON KIT Product Code : 600K09-GLKIT 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 Toxicity, (Toxic to Reproduction) Category 1A Chronic Toxicity, Aspiration Hazard, Category 1 Chronic Toxicity, (Carcinogenicity) Category 1







Potential Health Effects Eye:

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Aggravation of Pre-Existing Conditions: Dermatitis or other skin conditions.

3. Composition/Information on Ingredients

Component	CAS#	% by Wt.
QUARTZ (RESPIRABLE DUST ONLY; THIS WOULD INCLUDE ONLY PARTICLES 10 MICROMETERS OR LESS: OSHA PEL: 0.1 MG/M3 ACGIH TLV: 0.1 MG/M3	14808-60-7	24
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	23
ALUMINUM OXIDE OSHA PEL: 15 MG/M3 TWA ACGIH TLV: 10 MG/M3 TWA	1344-28-1	21
PARA-CHLOROBENZOTRIFLUORIDE (SUPPLIER): 20 PPM TWA	98-56-6	7
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	3
*+ XYLENE ACGIH: 100 PPM TWA OSHA: 100 PPM TWA	1330-20-7	3
1-METHOXY 2-PROPANOL ACGIH: 100 PPM TWA OSHA: 100 PPM TWA ACGIH: 150 PPM STEL OSHA: 150 PPM CEILING	107-98-2	2
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC OSHA PEL: 500 PPM (2000 MG/M3) ACGIH TLV: 200 MG/M3 (AS TOTAL HYDROCARBON VAPOR)	64742-95-6	1
CARBON BLACK ACGIH: 3.5 MG/M3 TWA OSHA: 3.5 MG/M3 TWA	1333-86-4	.179

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.

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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: May be fatal if swallowed and enters airways. 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: Explosive Limits: Lower explosive limit: 0.9 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.

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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.

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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: 1.883 Weight per Gallon: 15.678 lb./gal Coating VOC: 2.03 lb./gal Material VOC: 1.84 lb./galOdor: Mild solvent odor. Appearance: Liquid. Partition Coefficient: INFORMATION NOT AVAILABLE.

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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 37244-96-5: Mechanical eye irritation only Component 64742-95-6: Mild eye irritation, Category 2b Component 1330-20-7: Mild eye irritation, Category 2B Component 98-56-6: Mild eye irritation, Category 2b. Skin Irritation/Damage: Component 37244-96-5: LD50: No data Component 64742-95-6: LD50: >2000 mg/kg, rat. Category 5 Component 1330-20-7: LD50: 15,433, rabbit. Category 5. Mild irritation to skin. Category 2. Component 98-56-6: LD50: No data Mild skin irritation.

Acute Oral Toxicity: Component 1333-86-4: LD50: >8000 mg/kg, rat. Category 5 Component 14808-60-7:

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PES 250 BLACK - GALLON KIT Date Printed: 3/11/2016 Page 8 of 15 LD50: >5000 mg/kg, rat. Category 5 Component 37244-96-5: LD50: no data Component 64742-95-6: LD50: >5000 mg/kg, rat. Category 5 Component 1330-20-7: LD50: 5000 mg/kg, rat. Category 5 Component 107-98-2: LD50: 7200 mg/kg, rat. Category 5 Component 98-56-6: LD50: 13000 mg/kg, rat. Category 5 Acute Inhalation Toxicity: Component 64742-95-6: LC50: 5.6 mg/l, rat. Category 3 Component 1330-20-7: LD50: 18.8-25.9 mg/L, rat. Category 4 Component 98-56-6: LC50: 33 mg/l, rat. Category 5 Respiratory/Skin Sensitization: Component 37244-96-5: No evidence of respiratory or skin sensitization. Component 64742-95-6: No evidence of respiratory or skin sensitization. Component 1330-20-7: No evidence of respiratory or skin sensitization. Component 98-56-6: No evidence of respiratory or skin sensitization. Carcinogenicity: 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 14808-60-7:

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Listed by IARC as a group 1 carcinogen (carcinogenic to humans), and as a known carcinogen by NTP. GHS Category 1A.

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

Component 1330-20-7: Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH.

Component 98-56-6: Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH

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

Component 1330-20-7: Known human reproductive toxicant; Category 1A

Component 98-56-6: No evidence of human reproductive toxicity.

Germ Cell Mutagenicity: Component 37244-96-5: No data Component 64742-95-6: No data

Component 1330-20-7: No data

Component 98-56-6: No data

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Component 98-56-6:

No data

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Aspiration Toxicity:
Component 37244-96-5:
Not classified as an Aspiration Hazard.
Component 64742-95-6:
Aspiration Hazard; Category 1
Component 1330-20-7:
Aspiration Hazard; Category 1
Component 107-98-2:
Not classified as an Aspiration Hazard.
Component 98-56-6:
Not classified as an Aspiration Hazard.
STOT-single exposure
Component 37244-96-5:
No data
Component 64742-95-6:
No data
Component 1330-20-7:
No data
Component 107-98-2:
No data Component 98-56-6:
No data
STOT-repeated exposure
Component 37244-96-5:
No data
Component 64742-95-6:
Repeated exposure affected kidneys, blood, and adrenal gland.
Component 1330-20-7:
No data
Component 107-98-2:
No data
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Routes of Exposure: Inhalation of vapors, skin/eye/mucous membrane absorption, ingestion.

12. Ecological Information

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

Component 1330-20-7: LC50: 8.4 mg/l (fish); EC50: 9.55 mg/l (daphnia); EC50: 3.2 mg/l (algae) Component 98-56-6: LC50: 5.6 mg/l (fish)

Persistence & degradability: 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

Component 1330-20-7: Readily biodegradable

Component 98-56-6: Readily biodegradable

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Bioaccumulative potential:
Component 1333-86-4:
Not expected to bio
accumulate.Component 37244-96-
5:
No data
Component 64742-95-6:
No Data
Component 1330-20-7:
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Not expected to bio accumulate

Component 98-56-6: No data.

Mobility in soil: Component 37244-96-5: No data Component 64742-95-6: No data Component 1330-20-7: No data

Component 98-56-6: no data

Other Adverse Ecological Effects: Component 37244-96-5: Not expected to present an environmental hazard.

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

Component 1330-20-7: Toxic to aquatic life with long lasting results.

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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

(ABOVE APPLIES ONLY IF SHIPPED IN SIZE(S) OVER LIMITED QTY EXCEPTION)

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.

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PES 250 BLACK - GALLON KIT Date Printed: 3/11/2016 Page 14 of 15 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: 03/09/16 Prepared By: Regulatory Compliance Information Contact: Regulatory Compliance 979-779-8700 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

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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