

SAFETY DATA SHEET

Polymeric Engineered Solutions

PES 75 BLACK - GALLON

Date Printed: 1/26/2017

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1. Product and Company Identification

Product Name : PES 75 BLACK - GALLON

Product Code : 600K04-GL

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

Chronic Toxicity, (Carcinogenicity) Category 1



Potential Health Effects

Eye:

May cause mechanical irritation.

Skin:

May cause mechanical skin irritation.

Ingestion:

Not hazardous in normal industrial use.

Inhalation:

Not expected to cause effects from inhalation.

Chronic (Cancer) Information:

Contains CRYSTALLINE SILICA, which can be a health hazard. Respirable crystalline silica can cause the occupational lung disease silicosis (a scarring of the lungs), and IARC concluded in October 1996 that crystalline silica is carcinogenic to humans. Silicosis increases the risk of tuberculosis, autoimmune and chronic kidney diseases, as well as non-malignant respiratory disease (such as chronic bronchitis and emphysema). 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

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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: A component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.

ACGIH: A 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: A 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:

INFORMATION NOT AVAILABLE.

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	47
ALUMINUM OXIDE OSHA PEL: 15 MG/M3 TWA ACGIH TLV: 10 MG/M3 TWA	1344-28-1	2
1,2-PROPYLENE GLYCOL AIHA WEEL: 10 MG/M3 TWA aerosol only AIHA WEEL: 50 PPM TWA total	57-55-6	1
CARBON BLACK ACGIH: 3.5 MG/M3 TWA OSHA: 3.5 MG/M3 TWA	1333-86-4	.674
PETROLEUM DISTILLATES, HEAVY PARAFFINIC ACGIH: 5 MG/M3 (INHALABLE FRACTION) - TWA OSHA: 500 PPM (MIST)	64742-65-0	1
ETHYL ALCOHOL	64-17-5	1

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ACGIH TLV: 1000 PPM TWA
OSHA PEL: 1000 PPM TWA

4. First Aid Measures

Eyes:

Any material that contacts the eye should be washed out immediately with water. Flush with water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms persist.

Skin:

Wash with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion:

Do NOT induce vomiting. Drink 1 or 2 glasses of milk or water to dilute. Call a poison control center or get medical attention immediately. Never give anything by mouth to an unconscious person.

Inhalation:

If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Note to Physicians:

INFORMATION NOT AVAILABLE.

5. Fire Fighting Measures

Flammable Properties:

Flash Point: > 200 F

Method:

Explosive Limits:

Lower explosive limit: 2.6

Upper explosive limit: 19.0

Autoignition Temperature:

INFORMATION NOT AVAILABLE.

Hazardous Combustion Products:

INFORMATION NOT AVAILABLE.

Extinguishing Media:

Water based material will not burn until all water has boiled away. Residual solids and/or product container may support combustion. Use water, foam, dry chemical or CO2.

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.

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6. Accidental Release Measures

Small Spill:

See Information for Large Spill, below:

Large Spill:

Use personal protective equipment. Ensure adequate ventilation.

Environmental Precautions:

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:

Store in a cool, dry, well ventilated area. Keep containers tightly closed.

EMPTY CONTAINER PRECAUTIONS: Attention! This container is hazardous when empty. Follow label warnings even after container is emptied since empty containers may retain product residues. Do not re-use empty container without professional cleaning for food, clothing or products. for human or animal consumption or where skin contact can occur.

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

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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: 212 F

Freezing Point: 32 F

Vapor Pressure:

NO INFORMATION AVAILABLE

Vapor Density:

HEAVIER THAN AIR

Solubility in Water:

SOLUBLE

Evaporation Rate: SLOWER THAN ETHER

Specific Gravity: 1.748

pH Range: 8-10

Coating VOC: 0.58

lb./gal Material VOC:

0.38 lb./gal Odor:

Mild acrylic 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.

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Hazardous Decomposition Products:
Smoke, soot and carbon dioxide, carbon monoxide.

Hazardous Polymerization:
Will not occur under normal conditions.

11. Toxicological Information

Eye Irritation/Damage:
Component 57-55-6:
May cause slight temporary eye irritation.

Skin Irritation/Damage:
Component 57-55-6:
LD50: >2000 mg/kg, rat. Not categorized.

Acute Oral Toxicity:
Component 57-55-6:
LD50: >20,000 mg/kg, rat. Not categorized.
Component 1333-86-4:
LD50: >8000 mg/kg, rat. Category 5
Component 14808-60-7:
LD50: >5000 mg/kg, rat. Category 5

Acute Inhalation Toxicity:
Component 57-55-6:
LC50: 317 mg/l, rat. Not categorized.

Respiratory/Skin Sensitization:
Component 57-55-6:
No evidence of respiratory or skin sensitization.

Carcinogenicity:
Component 57-55-6:
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 14808-60-7:
Listed by IARC as a group 1 carcinogen (carcinogenic to humans), and as a known
carcinogen by NTP. GHS Category 1A.

Reproductive Toxicity:
Component 57-55-6:
No evidence of human reproductive toxicity.

Germ Cell Mutagenicity:
Component 57-55-6:

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No evidence of human developmental toxicity.

Aspiration Toxicity:

Component 57-55-6:

Not classified as an Aspiration Hazard.

STOT-single exposure:

Component 57-55-6:

No data

STOT-repeated exposure:

Component 57-55-6:

In rare cases, repeated excessive exposure to propylene glycol may cause central nervous system effects.

Routes of Exposure:

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

INFORMATION NOT AVAILABLE.

12. Ecological Information

Environmental Toxicity:

Component 57-55-6:

LC50: 40,613 mg/l (fish); EC50: 18,340 mg/l (daphnia); EC50: 19,000 mg/l (algae)

Component 1333-86-4:

LC50: <1000 mg/l (fish); EC50: <5600 mg/l (daphnia); EC50: <10,000 mg/l (algae)

Persistence & degradability:

Component 57-55-6:

Readily biodegradable

Component 1333-86-4:

Carbon Black is essentially elemental carbon & cannot be further biodegraded by microorganisms.

Bioaccumulative Potential:

Component 57-55-6:

Bio concentration potential is low (BCF < 100 or Log Pow < 3). Component 1333-86-4:

Not expected to bio accumulate.

Mobility in soil:

Component 57-55-6:

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process. Potential for mobility in soil is very high. (Koc between 0 and 50).

Other Adverse Ecological Effects:

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No information

Component 57-55-6:

Material is practically non-toxic to aquatic organisms on an acute basis.

13. Disposal Considerations

Waste Disposal Method:

Discharge, treatment or disposal is subject to national, state, or local laws. 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.

Contaminated Materials:

INFORMATION NOT AVAILABLE.

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: Not regulated by DOT/IATA

UN/NA ID No: n/a

Hazard Class: n/a

Packing Group: n/a

UN Number:

UN Shipping Name:

INFORMATION NOT AVAILABLE.

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Transport Hazard Class:

Packing Group:

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. 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.

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: 01/26/17

Prepared By: Regulatory Compliance

Information Contact: Regulatory Compliance 979-779-8700

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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