

Siloxseal 225

1	PRODUCT AND COMPANY IDENTIFICATION
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Product Identifier: Siloxseal 225
Common Name: Graphite containing Alkyl Silicone Resin
SDS Number: A63
Revision Date: 6/28/2015
Version: 1
Chemical Family: Polysiloxane
Product Use: Water Based Dry Film Lubricant
Supplier Details: Coatings For Industry, Inc.
 319 Township Line Road
 Souderton, PA 18964

Emergency: Infotrac
Contact: USA: 1-800-535-5053 / International :352-323-3500
Phone: 215-723-0919
Fax: 215-723-0911
Email: cs@cficoatings.com
Web: www.cficoatings.com

2	HAZARDS IDENTIFICATION
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Classification of the substance or mixture**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):**

Physical, Flammable Liquids, 3
 Health, Serious Eye Damage/Eye Irritation, 1
 Health, Acute toxicity, 4 Inhalation
 Health, Specific target organ toxicity - Single exposure, 3
 Health, Carcinogenicity, 2
 Health, Reproductive toxicity, 2
 Health, Specific target organ toxicity - Repeated exposure, 2
 Environmental, Hazards to the aquatic environment - Acute, 3

GHS Label elements, including precautionary statements**GHS Signal Word:** DANGER**GHS Hazard Pictograms:****GHS Hazard Statements:**

H226 - Flammable liquid and vapor
 H318 - Causes serious eye damage
 H332 - Harmful if inhaled
 H336 - May cause drowsiness or dizziness
 H351 - Suspected of causing cancer
 H361 - Suspected of damaging fertility or the unborn child
 H373 - May cause damage to organs through prolonged or repeated exposure
 H402 - Harmful to aquatic life

GHS Precautionary Statements:

P202 - Do not handle until all safety precautions have been read and understood.
 P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
 P233 - Keep container tightly closed.

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P240 - Ground/bond container and receiving equipment.
 P241 - Use explosion-proof electrical/ventilating/light/equipment.
 P242 - Use only non-sparking tools.
 P243 - Take precautionary measures against static discharge.
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
 P264 - Wash hands thoroughly after handling.
 P271 - Use only outdoors or in a well-ventilated area.
 P273 - Avoid release to the environment.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 P308+313 - IF exposed or concerned: Get medical advice/attention.
 P331 - Do NOT induce vomiting.
 P332+313 - If skin irritation occurs: Get medical advice/attention.
 P362 - Take off contaminated clothing and wash before reuse.
 P403+233 - Store in a well ventilated place. Keep container tightly closed.
 P501 - Dispose of contents/container in accordance with existing federal, state and local environmental control laws.

3	COMPOSITION/INFORMATION ON INGREDIENTS
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Ingredients:

Cas#	%	Chemical Name
0	20-25%	Polydimethylsiloxane/ phenylsilsesquioxane
7732-18-5	42.5-58.6%	Water
1330-20-7	2-5%	Xylene
35435-21-3	0.5-2.5%	Silane, triethoxy(2,4,4-trimethylpentyl)-
100-41-4	0.4-2.5%	Ethyl benzene
108-88-3	<0.5%	Toluene
7782-42-5	18-22%	Graphite

4	FIRST AID MEASURES
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Inhalation: If inhaled, remove to fresh air. Give oxygen or artificial respiration if needed. Get immediate medical attention.

Skin Contact: Remove contaminated clothing and footwear immediately, and wash before reuse. Discard clothing and footwear which cannot be decontaminated. Wipe away excess material. Use a waterless hand cleaner to remove as much of the remaining material as possible. Wash with soap and water. Get medical attention if needed.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Then remove contact lenses, if easily removeable, and continue irrigation for not less than 15 minutes. Get immediate medical attention.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Get prompt, qualified medical attention.

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5	FIRE FIGHTING MEASURES
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Flash Point: 105°F

Flash Point Method: Tag Closed Cup

This product is considered combustible and is a fire hazard. It supports combustion and decomposes under fire conditions to give off toxic materials. Do not Pour, spill or store near heat, spark sources, or open flames.

Fire Fighting Techniques

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate non-essential personnel from the fire area. Fire fighters should wear full-face, self-contained breathing apparatus and impervious protective clothing.

Use carbon dioxide, dry chemical or foam type extinguishing media.

6	ACCIDENTAL RELEASE MEASURES
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Eliminate all ignition sources. Control the source of the spill if it is safe to do so.

Make sure all personnel involved in the spill cleanup follow good occupational protective measures (refer to Section VII-Occupational Protective Measures).

Absorb spills with sand or Fuller's earth. Sweep up and place in an appropriate chemical waste container. Flush spill area with water. Observe all local, state, and federal laws and regulations regarding disposal, spill, cleanup, removal, or discharge.

Prevent material from entering sewers or surface waters. Observe local/state/federal regulations.

7	HANDLING AND STORAGE
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Handling Precautions: Precautions for safe handling:
Ensure adequate ventilation. Must be syphoned off in situ.
Precautions against fire and explosion:
Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

Storage Requirements: Store in cool, dry, well ventilated area. Keep away from heat, sparks and open flame. Never use a welding or cutting torch on or near any container (even empty) as an explosion can occur.

Keep container closed, even when empty.

Protect from freezing.

8	EXPOSURE CONTROLS/PERSONAL PROTECTION
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Engineering Controls: Engineering Controls: When the need for engineering controls is indicated by the conditions under which the product is used, one or more of the following techniques may be selected to limit employee exposure: general ventilation, local exhaust ventilation, enclosure or confinement of operation, and./or process isolation with remote control operation.

Personal Protective Equipment: Xylene (1330-20-7)

Personal protective equipment

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges

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as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Ethyl benzene (100-41-4)

Personal protective equipment

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full contact Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min Material tested: Vitoject (KCL 890 / Aldrich Z677698, Size M) Splash contact data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Toluene (108-88-3)

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of

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contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min
Material tested: Vitoject (KCL 890 / Aldrich Z677698, Size M)

Splash contact: Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min
Material tested: Vitoject (KCL 890 / Aldrich Z677698, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Components with workplace control parameters

Xylene (mixed isomers) (1330-20-7)

TWA 100 ppm USA. Occupational Exposure Limits (OSHA) - Table Z- 1
435 mg/m3 Limits for Air Contaminants

TWA 100 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
435 mg/m3 1910.1000

STEL 150 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
655 mg/m3 1910.1000

TWA 100 ppm USA. ACGIH Threshold Limit Values (TLV)
434 mg/m3

Not classifiable as a human carcinogen

STEL 150 ppm USA. ACGIH Threshold Limit Values (TLV)
651 mg/m3

Not classifiable as a human carcinogen

TWA 100 ppm USA. ACGIH Threshold Limit Values (TLV)

Eye & Upper Respiratory Tract irritation Central Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI section) Not classifiable as a human carcinogen

STEL 150 ppm USA. ACGIH Threshold Limit Values (TLV)

Eye & Upper Respiratory Tract irritation Central Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI section) Not classifiable as a human carcinogen

TWA 100 ppm USA. Occupational Exposure Limits (OSHA) - Table Z- 1
435 mg/m3 Limits for Air Contaminants

The value in mg/m3 is approximate.

TWA 100 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
435 mg/m3 1910.1000

STEL 150 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
655 mg/m3 1910.1000

Ethyl benzene (100-41-4)

TWA 100 ppm USA. ACGIH Threshold Limit Values (TLV)

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Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Substances for which there is a Biological Exposure Index or Indices (see BEI section) Confirmed animal carcinogen with unknown relevance to humans

STEL 125 ppm USA. ACGIH Threshold Limit Values (TLV)

Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Substances for which there is a Biological Exposure Index or Indices (see BEI section) Confirmed animal carcinogen with unknown relevance to humans

TWA 100 ppm USA. NIOSH Recommended Exposure Limits
435 mg/m3

ST 125 ppm USA. NIOSH Recommended Exposure Limits
545 mg/m3

TWA 100 ppm USA. Occupational Exposure Limits (OSHA) - Table Z- 1
435 mg/m3 Limits for Air Contaminants

The value in mg/m3 is approximate.

TWA 100 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
435 mg/m3 1910.1000

STEL 125 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
545 mg/m3 1910.1000

Toluene (108-88-3)

TWA 100 ppm USA. OSHA - TABLE Z-1 Limits for
375 mg/m3 Air Contaminants - 1910.1000

STEL 150 ppm USA. OSHA - TABLE Z-1 Limits for
560 mg/m3 Air Contaminants - 1910.1000

TWA 200 ppm USA. Occupational Exposure Limits
(OSHA) - Table Z2 Z37.12- 1967

CEIL 300 ppm USA. Occupational Exposure Limits
(OSHA) - Table Z2 Z37.12- 1967

Peak 500 ppm USA. Occupational Exposure Limits
(OSHA) - Table Z2 Z37.12- 1967

TWA 20 ppm USA. ACGIH Threshold Limit Values
(TLV)

Visual impairment

Female reproductive

Pregnancy loss

2010 Adoption

Substances for which there is a Biological Exposure Index or Indices (see BEI section)

Not classifiable as a human carcinogen

TWA 100 ppm USA. NIOSH Recommended
375 mg/m3 Exposure Limits

ST 150 ppm USA. NIOSH Recommended
560 mg/m3 Exposure Limits

Graphite (7782-42-5)

TWA 15Million particles per ft3 USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts

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Millions of particles per cubic foot of air, based on impinger samples counted by light-field techniques.
 mppcf X 35.3 = million particles per cubic meter = particles per c.c

TWA 2.5 mg/m³ USA. NIOSH Recommended Exposure Limits
 Also see specific listing for Graphite (synthetic).

TWA 10 mg/m³ USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
 TWA 5 mg/m³ USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
 TWA 15 mg/m³ USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
 TWA 5 mg/m³ USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
 TWA 2 mg/m³ USA. ACGIH Threshold Limit Values (TLV)
 Pneumoconiosis
 TWA 2.5 mg/m³ USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Gray	Odor:	mild/xylene
Physical State:	Liquid	Solubility:	Miscible
Spec Grav./Density:	1.07-1.15	Percent Volatile:	60-70% by volume
pH:	5.5-7.5	Flash Point:	105°F
		VOC:	1.17 lb./gal. (140g/l)

10 STABILITY AND REACTIVITY

Stability: Product is stable under normal conditions.
Conditions to Avoid: Heat, flames and sparks
Hazardous Decomposition: SiO₂, CO, CO₂, formaldehyde and various hydrocarbon fragments
Hazardous Polymerization: Will not occur.

11 TOXICOLOGICAL INFORMATION

No specific toxicological data on product.

Components with toxicological data:

Xylene (mixed isomers) (1330-20-7)

Information on toxicological effects

Acute toxicity:

Oral LD50: (Rat) 4300 mg/kg

Inhalation LC50: (Rat, male, 4hr) 29.091mg/l (EU method B.2)

Dermal LD50: (Rabbit, male) >4400mg/kg

Other information on acute toxicity

Skin corrosion/irritation: (Rabbit, 24hr) irritating

Serious eye damage/eye irritation: Causes eye irritation

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)

Carcinogenicity:

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Ethylbenzene)

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Xylene)

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.

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.

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Reproductive toxicity: Two-generation study, Inhalative, daily, (rat, male/female) NOAEL (parental): 500, NOAEL (F1): > 500, NOAEL (F2): > 500 No toxicity to reproduction
Teratogenicity: rat, female, inhalation, gestation days 9-14, 24 hrs/day, NOAEL (teratogenicity): > 230 ppm, NOAEL (maternal): > 230 ppm No Teratogenic effects observed at doses tested. rat, female, inhalation, gestation days 6-20, 6 hours/day, NOAEL (teratogenicity): > 8.684 mg/l, NOAEL (maternal): 2.171 mg/l, No Teratogenic effects observed at doses tested.

Specific target organ toxicity - single exposure (Globally Harmonized System): no data available
Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available
Aspiration hazard: no data available
Potential health effects: Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Ingestion May be harmful if swallowed. Skin Causes skin irritation. Eyes Causes eye irritation.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Synergistic effects: no data available
Additional Information:
RTECS: Not available

Ethyl benzene (100-41-4)

Information on toxicological effects

Acute toxicity:
Oral LD50: (Rat) 3500mg/kg
Inhalation LC50: (Rat, 2 hr) 5500mg/m³
Dermal LD50 (Rabbit) 15,433 mg/kg
Other information on acute toxicity
Skin corrosion/irritation: Draize, mild skin irritation
Serious eye damage/eye irritation: (Rabbit) Draize, severely irritating
Respiratory or skin sensitisation: dermal: non-sensitizer (Human, Patch Test)
Germ cell mutagenicity: Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)

Carcinogenicity:
This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.
IARC: 2B - Group 2B: Possibly carcinogenic to humans (Ethylbenzene)
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.
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.

Reproductive toxicity: no data available
Teratogenicity: no data available
Specific target organ toxicity - single exposure (Globally Harmonized System) :no data available
Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available
Aspiration hazard: no data available
Potential health effects: Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation.

Signs and Symptoms of Exposure: Central nervous system depression, Nausea, Headache, Vomiting, Ataxia., Tremors
Synergistic effects: no data available
Additional Information:
RTECS: DA0700000

Toluene (108-88-3)

Information on toxicological effects

Acute toxicity:
LD50 Oral - rat - > 5,580 mg/kg
LC50 Inhalation - rat - 4 h - 12,500 - 28,800 mg/m³
LD50 Dermal - rabbit - 12,196 mg/kg

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Skin corrosion/irritation: Skin - rabbit Result: Skin irritation - 24 h
Serious eye damage/eye irritation: no data available
Respiratory or skin sensitisation: no data available
Germ cell mutagenicity: rat Liver DNA damage

Carcinogenicity:

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Toluene)

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.

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.

Reproductive toxicity: Damage to fetus possible Suspected human reproductive toxicant

Reproductive toxicity - rat - Inhalation:

Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count).

Experiments have shown reproductive toxicity effects in male and female laboratory animals.

Developmental Toxicity - rat - Oral: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: XS5250000

Lung irritation, chest pain, pulmonary edema, Inhalation studies on toluene have demonstrated the development of inflammatory and ulcerous lesions of the penis, prepuce, and scrotum in animals.

Stomach - Irregularities - Based on Human Evidence

Graphite (7782-42-5)

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - female - > 2,000 mg/kg (OECD Test Guideline 423)

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation: Skin - rabbit Result: No skin irritation (OECD Test Guideline 404)

Serious eye damage/eye irritation: Eyes - rabbit Result: No eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitisation: - mouse Did not cause sensitisation on laboratory animals. (OECD Test Guideline 429)

Germ cell mutagenicity: in vitro assay *S. typhimurium* Result: negative

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, 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.

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.

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.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

Repeated dose toxicity - rat - male - Feed - No observed adverse effect level - 813 mg/kg RTECS: MD9659600

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ECOLOGICAL INFORMATION

No specific ecological data on product.

Components with ecological data:

Xylene (mixed isomers) (1330-20-7)

Information on ecological effects

Toxicity:

LC50: 13.5 - 17.3 mg/l (Rainbow (Donaldson) Trout (Oncorhynchus mykiss), 96 h)

Acute Toxicity to Aquatic Invertebrates: 600 ug/L (Gammarus sp., 48 h)

Toxicity to Aquatic Plants: EC50: 10 mg/l, End Point: growth (other: algae, 72 h)

Persistence and degradability: > 60 %, Exposure time: 28 d, i.e. readily biodegradable

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life.

Ethyl benzene (100-41-4)

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Cyprinodon variegatus (sheepshead minnow) - 88.00 mg/l - 96 h.

LC50 - Lepomis macrochirus (Bluegill) - 80.00 mg/l - 96 h

NOEC - Cyprinodon variegatus (sheepshead minnow) - 88 mg/l - 96 h

LC50 - Oncorhynchus mykiss (rainbow trout) - 4.2 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 2.90 mg/l - 48 h.

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life.

Toluene (108-88-3)

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 7.63 mg/l - 96 h.

NOEC - Pimephales promelas (fathead minnow) - 5.44 mg/l - 7 d

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 8.00 mg/l - 24 h.

Immobilization EC50 - Daphnia magna (Water flea) - 6 mg/l - 48 h

Toxicity to algae EC50 - Chlorella vulgaris (Fresh water algae) - 245.00 mg/l - 24 h.

EC50 - Pseudokirchneriella subcapitata (green algae) - 10.00 mg/l - 24 h

Persistence and degradability: Biodegradability Result: - Readily biodegradable.

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Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

Graphite (7782-42-5)

Information on ecological effects

Toxicity:

Toxicity to fish semi-static test LC50 - Danio rerio (zebra fish) - > 100 mg/l - 96 h. (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h. (OECD Test Guideline 202)

Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata - > 100 mg/l - 72 h. (OECD Test Guideline 201)

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

13	DISPOSAL CONSIDERATIONS
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Waste Disposal Method

Waste disposal should be in accordance with existing federal, state and local environmental control laws

Empty Container Precautions

Do not heat or cut container with electric or gas torch. Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning. Label precautions also apply to this container when empty.

14	TRANSPORT INFORMATION
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UN1263, Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base, 3, PGIII

*If quantity is in a non bulk packaging (less than 119 gallons), this material ships as DOT non regulated unless the combustible liquid is a hazardous substance or a hazardous waste.

IMO/IMDG

ICAO/IATA

Hazard Label: Flammable Liquid

Hazard Placard: Flammable Liquid

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15	REGULATORY INFORMATION
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Component (CAS#) [%] - CODES

Polydimethylsiloxane/ phenylsilsesquioxane (0) [20-25%] TSCA

Water (7732-18-5) [42.5-58.6%] TSCA

RQ(100LBS), Xylene (1330-20-7) [2-5%] CERCLA, CSWHS, EPCRAWPC, HAP, MASS, NJHS, OSHAWAC, PA, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

Silane, triethoxy(2,4,4-trimethylpentyl)- (35435-21-3) [0.5-2.5%] TSCA

Ethyl benzene (100-41-4) [0.4-2.5%] CERCLA, CSWHS, EPCRAWPC, HAP, MASS, NJHS, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TSCA, TXAIR

Graphite (7782-42-5) [18-22%] MASS, OSHAWAC, PA, TSCA, TXAIR

Regulatory CODE Descriptions

RQ = Reportable Quantity
 TSCA = Toxic Substances Control Act
 CERCLA = Superfund clean up substance
 CSWHS = Clean Water Act Hazardous substances
 EPCRAWPC = EPCRA water Priority Chemicals
 HAP = Hazardous Air Pollutants
 MASS = MA Massachusetts Hazardous Substances List
 NJHS = NJ Right-to-Know Hazardous Substances
 OSHAWAC = OSHA workplace Air Contaminants
 PA = PA Right-To-Know List of Hazardous Substances
 SARA313 = SARA 313 Title III Toxic Chemicals
 TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)
 TXAIR = TX Air Contaminants with Health Effects Screening Level
 TXHWL = TX Hazardous waste List
 PRIPOL = Clean Water Act Priority Pollutants
 TOXICPOL = Clean Water Act Toxic Pollutants

16	OTHER INFORMATION
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NOTICE: This information is presented in good faith and believed to be accurate as of the effective date below. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Coatings For Industry, Inc. assumes no responsibility for personal injury or property damage to vendees, users, or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material. Regulatory requirements are subject to change and may differ from one location to another: it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The preceding specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.