

SAFETY DATA SHEET

1. Identification

Product identifier: FSR20 FLEX SEAL LIQUID RUBBER SEALANT COATING

Other means of identification

SDS number: RE1000030030

Recommended restrictions

Product Use: Coating

Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: SWIFT RESPONSE, LLC
Address: 2690 WESTON RD.
WESTON, FL 33331
Telephone: 800-307-6201
Fax:

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Physical Hazards

| | |
|----------------------|---------------|
| Flammable aerosol | Category 1 |
| Gases under pressure | Liquefied gas |

Health Hazards

| | |
|---|-------------------------|
| Skin Corrosion/Irritation | Category 2 |
| Serious Eye Damage/Eye Irritation | Category 2A |
| Germ Cell Mutagenicity | Category 1B |
| Carcinogenicity | Category 1B |
| Toxic to reproduction | Category 2 |
| Specific Target Organ Toxicity - Single Exposure | Category 3 ¹ |
| Specific Target Organ Toxicity - Repeated Exposure | Category 2 |
| Aspiration Hazard | Category 1 |

Target Organs

1. Narcotic effect.

Environmental Hazards

| | |
|---|------------|
| Acute hazards to the aquatic environment | Category 2 |
|---|------------|

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: Extremely flammable aerosol.
Causes skin irritation.
Causes serious eye irritation.
May cause genetic defects.
May cause cancer.
Suspected of damaging fertility or the unborn child.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.
May be fatal if swallowed and enters airways.
Toxic to aquatic life.
Contains gas under pressure; may explode if heated.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid release to the environment.

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing.

Storage: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Mixtures

| Chemical Identity | CAS number | Content in percent (%)* |
|--|------------|-------------------------|
| Benzene, methyl- | 108-88-3 | 10 - <20% |
| Butane | 106-97-8 | 10 - <20% |
| Naphtha (petroleum), heavy alkylate | 64741-65-7 | 10 - <20% |
| Propane | 74-98-6 | 5 - <10% |
| Distillates (petroleum), light distillate hydrotreating process, low-boiling | 68410-97-9 | 1 - <5% |
| Limestone | 1317-65-3 | 1 - <5% |
| Carbon black | 1333-86-4 | 1 - <5% |
| Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- | 5989-27-5 | 0.1 - <1% |
| Silica | 7631-86-9 | 0.1 - <1% |
| Benzene, dimethyl- | 1330-20-7 | 0.1 - <1% |
| White mineral oil (petroleum) | 8042-47-5 | 0.1 - <1% |
| Aluminum oxide (Al ₂ O ₃) | 1344-28-1 | 0.1 - <1% |
| Acetic acid, butyl ester | 123-86-4 | 0.1 - <1% |
| Stoddard solvent | 8052-41-3 | 0.1 - <1% |
| Benzene, ethyl- | 100-41-4 | 0.1 - <1% |
| Quartz (SiO ₂) | 14808-60-7 | 0.1 - <1% |

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

- Ingestion:** Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
- Inhalation:** Move to fresh air.
- Skin Contact:** Get medical attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.
- Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

- General Fire Hazards:** Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: Vapors may travel considerable distance to a source of ignition and flash back.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

Notification Procedures: Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

7. Handling and storage

Precautions for safe handling: Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid contact with skin. Avoid contact with eyes, skin, and clothing.

Conditions for safe storage, including any incompatibilities: Store locked up. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 3

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

| Chemical Identity | Type | Exposure Limit Values | Source |
|--|-----------|--|---|
| Benzene, methyl- | STEL | 150 ppm 560 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | REL | 100 ppm 375 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| | TWA | 100 ppm 375 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | Ceiling | 300 ppm | US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006) |
| | TWA | 20 ppm | US. ACGIH Threshold Limit Values (2008) |
| | TWA | 200 ppm | US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006) |
| | MAX. CONC | 500 ppm | US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006) |
| Butane | REL | 800 ppm 1,900 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| | STEL | 1,000 ppm | US. ACGIH Threshold Limit Values (03 2018) |
| | TWA | 800 ppm 1,900 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| Naphtha (petroleum), heavy alkylate | PEL | 100 ppm 400 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| | TWA | 100 ppm 400 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | REL | 100 ppm 400 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2010) |
| Propane | REL | 1,000 ppm 1,800 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| | PEL | 1,000 ppm 1,800 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| | TWA | 1,000 ppm 1,800 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| Distillates (petroleum), light distillate hydrotreating process, low-boiling - Mist. | STEL | 10 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| | TWA | 5 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | REL | 5 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| | PEL | 5 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Limestone - Total | REL | 10 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| Limestone - Respirable. | REL | 5 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| Limestone - Respirable fraction. | PEL | 5 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Limestone - Total dust. | PEL | 15 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| | TWA | 15 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | TWA | 5 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| Carbon black | REL | 3.5 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| | PEL | 3.5 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Carbon black - Inhalable fraction. | TWA | 3 mg/m3 | US. ACGIH Threshold Limit Values (12 2010) |
| Carbon black | TWA | 3.5 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| Carbon black - as PAHs | REL | 0.1 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2016) |
| Silica | TWA | 6 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | TWA | 20 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000) |

| | | | | |
|---|-----------|---------|--|---|
| | TWA | | 0.8 mg/m ³ | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000) |
| | REL | | 6 mg/m ³ | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| Benzene, dimethyl- | STEL | 150 ppm | 655 mg/m ³ | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | TWA | 100 ppm | 435 mg/m ³ | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | TWA | 100 ppm | | US. ACGIH Threshold Limit Values (2008) |
| | REL | 100 ppm | 435 mg/m ³ | US. NIOSH: Pocket Guide to Chemical Hazards (2016) |
| | PEL | 100 ppm | 435 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| | STEL | 150 ppm | | US. ACGIH Threshold Limit Values (2008) |
| | STEL | 150 ppm | 655 mg/m ³ | US. NIOSH: Pocket Guide to Chemical Hazards (2016) |
| White mineral oil (petroleum) - Mist. | REL | | 5 mg/m ³ | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| | PEL | | 5 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| | STEL | | 10 mg/m ³ | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| | TWA | | 5 mg/m ³ | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| White mineral oil (petroleum) - Inhalable fraction. | TWA | | 5 mg/m ³ | US. ACGIH Threshold Limit Values (01 2010) |
| Aluminum oxide (Al ₂ O ₃) - Respirable fraction. | TWA | | 5 mg/m ³ | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| Aluminum oxide (Al ₂ O ₃) - Total dust. | PEL | | 15 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Aluminum oxide (Al ₂ O ₃) - Respirable fraction. | TWA | | 1 mg/m ³ | US. ACGIH Threshold Limit Values (2009) |
| Aluminum oxide (Al ₂ O ₃) - Total dust. | TWA | | 10 mg/m ³ | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| Aluminum oxide (Al ₂ O ₃) - Respirable fraction. | PEL | | 5 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Aluminum oxide (Al ₂ O ₃) - Total dust. | TWA | | 50 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |
| Aluminum oxide (Al ₂ O ₃) - Respirable fraction. | TWA | | 15 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |
| | TWA | | 5 mg/m ³ | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |
| Aluminum oxide (Al ₂ O ₃) - Total dust. | TWA | | 15 mg/m ³ | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |
| Acetic acid, butyl ester | REL | 150 ppm | 710 mg/m ³ | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| | TWA | 150 ppm | 710 mg/m ³ | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | PEL | 150 ppm | 710 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| | TWA | 50 ppm | | US. ACGIH Threshold Limit Values (03 2016) |
| | STEL | 200 ppm | 950 mg/m ³ | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| | STEL | 200 ppm | 950 mg/m ³ | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | STEL | 150 ppm | | US. ACGIH Threshold Limit Values (03 2016) |
| Stoddard solvent | TWA | 100 ppm | | US. ACGIH Threshold Limit Values (2008) |
| | REL | | 350 mg/m ³ | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| | PEL | 500 ppm | 2,900 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| | Ceil_Time | | 1,800 mg/m ³ | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| | TWA | 100 ppm | 525 mg/m ³ | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| Benzene, ethyl- | STEL | 125 ppm | 545 mg/m ³ | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| | REL | 100 ppm | 435 mg/m ³ | US. NIOSH: Pocket Guide to Chemical |

| | | | | |
|--------------------------------------|-----------|---------|---|--|
| | | | | Hazards (2005) |
| | PEL | 100 ppm | 435 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| | STEL | 125 ppm | 545 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | TWA | 100 ppm | 435 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | TWA | 20 ppm | | US. ACGIH Threshold Limit Values (12 2010) |
| Quartz (SiO2) - Respirable dust. | REL | | 0.05 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| Quartz (SiO2) - Respirable. | TWA | | 2.4 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000) |
| | TWA | | 0.1 mg/m3 | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000) |
| Quartz (SiO2) - Respirable fraction. | TWA | | 0.025 mg/m3 | US. ACGIH Threshold Limit Values (2008) |
| Quartz (SiO2) - Respirable dust. | TWA | | 0.1 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| Quartz (SiO2) - Respirable dust. | TWA | | 0.05 mg/m3 | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016) |
| Quartz (SiO2) - Respirable dust. | PEL | | 0.05 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016) |
| Quartz (SiO2) - Respirable dust. | OSHA_ACT | | 0.025 mg/m3 | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016) |
| Benzene, (1-methylethyl)- | REL | 50 ppm | 245 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| | TWA | 50 ppm | | US. ACGIH Threshold Limit Values (2008) |
| | PEL | 50 ppm | 245 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| | TWA | 50 ppm | 245 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | TWA | 1 ppm | | US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values (03 2018) |
| Benzene | REL | 0.1 ppm | | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| | TWA | 1 ppm | | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | Ceiling | 25 ppm | | US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006) |
| | TWA | 0.5 ppm | | US. ACGIH Threshold Limit Values (2008) |
| | STEL | 2.5 ppm | | US. ACGIH Threshold Limit Values (2008) |
| | STEL | 5 ppm | | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006) |
| | OSHA_ACT | 0.5 ppm | | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006) |
| | TWA | 10 ppm | | US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006) |
| | MAX. CONC | 50 ppm | | US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006) |
| | STEL | 5 ppm | | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | TWA | 1 ppm | | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006) |
| | STEL | 1 ppm | | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |

Biological Limit Values

| Chemical Identity | Exposure Limit Values | Source |
|---|--------------------------------|---------------------|
| Benzene, methyl- (toluene: Sampling time: End of shift.) | 0.03 mg/l (Urine) | ACGIH BEL (03 2013) |
| Benzene, methyl- (o-Cresol, with hydrolysis: Sampling time: End of shift.) | 0.3 mg/g (Creatinine in urine) | ACGIH BEL (03 2013) |
| Benzene, methyl- (toluene: Sampling time: Prior to last shift of work week.) | 0.02 mg/l (Blood) | ACGIH BEL (03 2013) |
| Benzene, dimethyl- (Methylhippuric acids: Sampling time: End of shift.) | 1.5 g/g (Creatinine in urine) | ACGIH BEL (03 2013) |
| Benzene, ethyl- (Sum of mandelic acid and phenylglyoxylic acid: Sampling time: End of shift.) | 0.15 g/g (Creatinine in urine) | ACGIH BEL (02 2014) |
| Benzene (S-Phenylmercapturic acid: Sampling time: End of shift.) | 25 µg/g (Creatinine in urine) | ACGIH BEL (03 2013) |
| Benzene (t,t-Muconic acid: Sampling time: End of shift.) | 500 µg/g (Creatinine in urine) | ACGIH BEL (03 2013) |

Appropriate Engineering Controls No data available.

Individual protection measures, such as personal protective equipment

General information: Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection
Hand Protection: No data available.

Other: Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

Hygiene measures: Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. When using do not smoke. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

| | |
|--|-----------------------------|
| Physical state: | liquid |
| Form: | Spray Aerosol |
| Color: | No data available. |
| Odor: | No data available. |
| Odor threshold: | No data available. |
| pH: | No data available. |
| Melting point/freezing point: | No data available. |
| Initial boiling point and boiling range: | No data available. |
| Flash Point: | Estimated -104.4 °C |
| Evaporation rate: | No data available. |
| Flammability (solid, gas): | No data available. |
| Upper/lower limit on flammability or explosive limits | |
| Flammability limit - upper (%): | Estimated 7 %(V) |
| Flammability limit - lower (%): | Estimated 1 %(V) |
| Explosive limit - upper (%): | No data available. |
| Explosive limit - lower (%): | No data available. |
| Vapor pressure: | Estimated 2,757 hPa (21 °C) |
| Vapor density: | No data available. |
| Density: | No data available. |
| Relative density: | No data available. |
| Solubility(ies) | |
| Solubility in water: | No data available. |
| Solubility (other): | No data available. |
| Partition coefficient (n-octanol/water): | No data available. |
| Auto-ignition temperature: | No data available. |
| Decomposition temperature: | No data available. |
| Viscosity: | No data available. |

10. Stability and reactivity

| | |
|-------------------------------------|---|
| Reactivity: | No data available. |
| Chemical Stability: | Material is stable under normal conditions. |
| Possibility of hazardous reactions: | No data available. |
| Conditions to avoid: | Avoid heat or contamination. |
| Incompatible Materials: | No data available. |
| Hazardous Decomposition Products: | No data available. |

11. Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

| | |
|---|-----------------------------|
| Benzene, methyl- | LD 50 (Rat): 5,580 mg/kg |
| Naphtha (petroleum), heavy alkylate | LD 50: > 2,000 mg/kg |
| Distillates (petroleum), light distillate hydrotreating process, low-boiling | LD 50 (Rat): > 5,000 mg/kg |
| Limestone | LD 50: > 2,000 mg/kg |
| Carbon black | LD 50 (Rat): > 8,000 mg/kg |
| Cyclohexene, 1-methyl-4- (1-methylethenyl)-, (4R)- | LD 50 (Rat): > 2,000 mg/kg |
| Silica | LD 50 (Rat): > 5,000 mg/kg |
| Benzene, dimethyl- | LD 50 (Rat): 3,523 mg/kg |
| White mineral oil (petroleum) | LD 50 (Rat): > 5,000 mg/kg |
| Aluminum oxide (Al ₂ O ₃) | LD 50 (Rat): > 10,000 mg/kg |
| Acetic acid, butyl ester | LD 50 (Rat): 14,130 mg/kg |
| Stoddard solvent | LD 50: > 2,000 mg/kg |
| Benzene, ethyl- | LD 50 (Rat): 3,500 mg/kg |
| Quartz (SiO ₂) | LD 50: > 5,000 mg/kg |

Dermal

Product:

Not classified for acute toxicity based on available data.

Specified substance(s):

| | |
|---|--|
| Benzene, methyl- | LD 50 (Rabbit): > 5,000 mg/kg |
| Naphtha (petroleum), heavy alkylate | LD 50: > 2,000 mg/kg |
| Distillates (petroleum), light distillate hydrotreating process, low-boiling | LD 50 (Rabbit): > 2,000 mg/kg |
| Limestone | LD 50: > 2,000 mg/kg |
| Cyclohexene, 1-methyl-4- (1-methylethenyl)-, (4R)- | LD 50 (Rabbit): > 5,000 mg/kg |
| Silica | LD 50 (Rabbit): > 5,000 mg/kg |
| Benzene, dimethyl- | LD 50 (Rabbit): 12,126 mg/kg LD 50: 2,000 mg/kg |
| White mineral oil (petroleum) | LD 50 (Rabbit): > 2,000 mg/kg |
| Acetic acid, butyl ester | LD 50 (Rabbit): > 5,000 mg/kg |
| Stoddard solvent | LD 50: > 2,000 mg/kg |
| Benzene, ethyl- | ATE: > 2,000 mg/kg |
| Quartz (SiO ₂) | LD 50: > 5,000 mg/kg |

Inhalation

Product:

Not classified for acute toxicity based on available data.

Specified substance(s):

| | |
|---|--|
| Benzene, methyl- | LC 50 (Rat): 28.1 mg/l LC 50: > 100 mg/l |
| Butane | LC 50: > 100 mg/l LC 50: > 100 mg/l |
| Naphtha (petroleum), heavy alkylate | LD 50: > 5 mg/l |
| Propane | LC 50: > 100 mg/l LC 50: > 100 mg/l |
| Distillates (petroleum), light distillate hydrotreating process, low-boiling | LC 50 (Rat): > 7,630 mg/m ³ |
| Limestone | LC 50: > 5 mg/l LC 50: > 20 mg/l |
| Carbon black | LOAEL (Rat): > 4.6 mg/m ³ |
| Cyclohexene, 1-methyl-4- (1-methylethenyl)-, (4R)- | LC 50: > 20 mg/l LC 50: > 5 mg/l |
| Silica | LC 50 (Rat): > 58.8 mg/l |
| Benzene, dimethyl- | LC 50: 20 mg/l LC 50: 10 mg/l |
| White mineral oil (petroleum) | LC 50 (Rat): > 5 mg/l LC 50: > 20 mg/l |
| Aluminum oxide (Al ₂ O ₃) | LC 50 (Rat): 7.6 mg/l LC 50 (Rat): > 2.3 mg/l |
| Acetic acid, butyl ester | LC 50 (Rat): > 23.4 mg/l LC 50 (Rat): > 21 mg/l |
| Stoddard solvent | LC 50: > 5 mg/l LC 50: > 20 mg/l |
| Benzene, ethyl- | LC 50: 11 mg/l |
| Quartz (SiO ₂) | LD 50: > 5 mg/l |

Repeated dose toxicity

Product: No data available.

Specified substance(s):

| | |
|--|---|
| Benzene, methyl- | LOAEL (Rat(Female, Male), Oral, 13 Weeks): 1,250 mg/kg (Target Organ(s): Liver, Kidney) Oral Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation): 625 ppm(m) Inhalation Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation - vapor): 2,355 mg/l Inhalation Experimental result, Key study |
| Butane | LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study |
| Propane | NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study |
| Distillates (petroleum), light distillate hydrotreating process, low-boiling | NOAEL (Rat(Female, Male), Inhalation): 9,840 mg/m3 Inhalation Experimental result, Key study NOAEL (Rat(Female, Male), Dermal, 5 - 28 d): 3,750 mg/kg Dermal Experimental result, Key study NOAEL (Rat(Male), Oral, 28 d): < 500 mg/kg Oral Experimental result, Supporting study |
| Carbon black | NOAEL (Rat(Female), Oral, 52 - 104 Weeks): 52 mg/kg Oral Experimental result, Key study NOAEL (Rat(Male), Inhalation): 1.1 mg/m3 Inhalation Experimental result, Key study |
| Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-Silica | NOAEL (Rat(Male), Oral, 13 Weeks): 600 mg/kg Oral Experimental result, Key study NOAEL (Rat(Female, Male), Oral, 13 Weeks): 4,000 mg/kg Oral Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation): 1.3 mg/m3 Inhalation Experimental result, Key study |
| Benzene, dimethyl- | NOAEL (Rat(Female), Oral, 90 d): 150 mg/kg Oral Experimental result, Key study |
| White mineral oil (petroleum) | NOAEL (Rat(Female, Male), Oral, 90 d): >= 20,000 ppm(m) Oral Experimental result, Key study NOAEL (Rabbit(Female, Male), Dermal): 1,000 mg/kg Dermal Read-across from supporting substance (structural analogue or surrogate), Key study LOAEL (Rat(Female, Male), Inhalation): 210 mg/m3 Inhalation Experimental result, Key study |
| Aluminum oxide (Al2O3) | NOAEL (Rat, Inhalation, 6 - 12 Months): 70 mg/m3 Inhalation Experimental result, Key study LOAEL (Rat(Female, Male), Oral, 28 - 53 d): 1,000 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study |
| Acetic acid, butyl ester | NOAEL (Rat(Female, Male), Inhalation, 13 Weeks): 500 ppm(m) Inhalation Experimental result, Key study |
| Stoddard solvent | NOAEL (Rat, Inhalation - vapor): 1.9 mg/l (Target Organ(s): Nervous System) |
| Benzene, ethyl- | NOAEL (Mouse(Female, Male), Inhalation, 104 Weeks): 75 ppm(m) Inhalation Experimental result, Key study NOAEL (Rat(Female, Male), Oral, 28 d): 75 mg/kg Oral Experimental result, Key study |

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

| | |
|---|---|
| Benzene, methyl- | in vivo (Rabbit): Irritating Experimental result, Key study |
| Carbon black | in vivo (Rabbit): Not irritant Experimental result, Key study |
| Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- | in vivo (Rabbit): Not irritant Experimental result, Key study |
| Silica | in vivo (Rabbit): Not irritant Experimental result, Key study |
| Benzene, dimethyl- | in vivo (Rabbit): Irritating. Experimental result, Weight of Evidence study |
| White mineral oil (petroleum) | in vivo (Rabbit): Not irritant Experimental result, Key study |
| Aluminum oxide (Al ₂ O ₃) | in vivo (Rabbit): Not irritant Experimental result, Key study |
| Acetic acid, butyl ester | in vivo (Rabbit): Not irritant Experimental result, Key study |

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

| | |
|--|---|
| Benzene, methyl- | Rabbit, 24 - 72 hrs: Not irritating |
| Distillates (petroleum), light distillate hydrotreating process, low-boiling | Rabbit, 24 - 72 hrs: Not irritating |
| Carbon black | Rabbit, 24 - 72 hrs: Not irritating |
| Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- | Rabbit, 24 - 72 hrs: Not irritating |
| Silica | Rabbit, 24 - 72 hrs: Not irritating |
| Benzene, dimethyl- | Rabbit, 1 hrs: Slightly irritating (Not Classified) |
| White mineral oil (petroleum) | Rabbit, 24 - 72 hrs: Not irritating |
| Aluminum oxide (Al ₂ O ₃) | Rabbit, 48 - 72 hrs: Not irritating |
| Acetic acid, butyl ester | Rabbit, 24 - 72 hrs: Not irritating |
| Benzene, ethyl- | Rabbit, 7 d: Slightly irritating |

Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

| | |
|--|--|
| Benzene, methyl-Distillates (petroleum), light distillate hydrotreating process, low-boiling | Skin sensitization:, in vivo (Guinea pig): Non sensitising Skin sensitization:, in vivo (Guinea pig): Non sensitising |
| Carbon black | Skin sensitization:, in vivo (Guinea pig): Non sensitising |
| White mineral oil (petroleum) | Skin sensitization:, in vivo (Guinea pig): Non sensitising |
| Aluminum oxide (Al ₂ O ₃) | Skin sensitization:, in vivo (Guinea pig): Non sensitising |
| Acetic acid, butyl ester | Skin sensitization:, in vivo (Guinea pig): Non sensitising |
| Benzene, ethyl- | Skin sensitization:, in vivo (Human): Non sensitising |

Carcinogenicity

Product: No data available.

Specified substance(s):
Stoddard solvent Potential cancer hazard.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

| | |
|----------------------------|--|
| Carbon black | Overall evaluation: 2B. Possibly carcinogenic to humans. |
| Benzene, ethyl- | Overall evaluation: 2B. Possibly carcinogenic to humans. |
| Quartz (SiO ₂) | Overall evaluation: 1. Carcinogenic to humans. |

US. National Toxicology Program (NTP) Report on Carcinogens:

Quartz (SiO₂) Known To Be Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

Quartz (SiO₂)
Cancer

Germ Cell Mutagenicity

In vitro
Product: No data available.

In vivo
Product: No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s):

Benzene, methyl- Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure

Product: Inhalation - dust and mist: Narcotic effect. - Category 3 with narcotic effects.

Specific Target Organ Toxicity - Repeated Exposure

Product: Category 2

Target Organs

Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

Aspiration Hazard

Product: No data available.

Specified substance(s):

| | |
|--|---|
| Benzene, methyl-Naphtha (petroleum), heavy alkylate | May be fatal if swallowed and enters airways. |
| Distillates (petroleum), light distillate hydrotreating process, low-boiling | May be fatal if swallowed and enters airways. |
| White mineral oil (petroleum) | May be fatal if swallowed and enters airways. |
| Stoddard solvent | May be fatal if swallowed and enters airways. |

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

| | |
|--|---|
| Benzene, methyl- | LC 50 (Oncorhynchus kisutch, 96 h): 5.5 mg/l Experimental result, Key study |
| Butane | LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study |
| Propane | LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study |
| Distillates (petroleum), light distillate hydrotreating process, low-boiling | LL 50 (Pimephales promelas, 96 h): 8.2 mg/l Experimental result, Key study |
| Carbon black | LC 0 (Danio rerio, 96 h): 1,000 mg/l Experimental result, Key study |
| Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- | EC 50 (Pimephales promelas, 96 h): 688 µg/l Experimental result, Key study |
| Silica | LL 0 (Danio rerio, 96 h): 10,000 mg/l Experimental result, Key study |
| Benzene, dimethyl- | LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 6.702 - 10.032 mg/l Mortality |
| White mineral oil (petroleum) | NOAEL (Oncorhynchus mykiss, 96 h): >= 100 mg/l Experimental result, Key study LL 50 (Oncorhynchus mykiss, 96 h): > 100 mg/l Experimental result, Key study |
| Aluminum oxide (Al2O3) | LC 50 (Oncorhynchus mykiss, 96 h): 6.17 mg/l Other, Weight of Evidence |

| | |
|--|--|
| | study |
| Acetic acid, butyl ester | LC 50 (Pimephales promelas, 96 h): 18 mg/l Experimental result, Key study |
| Benzene, ethyl- | LC 50 (Fathead minnow (Pimephales promelas), 96 h): 38.9 - 62.83 mg/l Mortality |
| Aquatic Invertebrates | |
| Product: | No data available. |
| Specified substance(s): | |
| Benzene, methyl- | LC 50 (Water flea (Daphnia magna), 48 h): 54.6 - 174.7 mg/l Mortality LC 50 (Ceriodaphnia dubia, 2 d): 3.78 mg/l Experimental result, Key study |
| Butane | LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study |
| Distillates (petroleum), light distillate hydrotreating process, low-boiling | EC 50 (Daphnia magna, 48 h): 4.5 mg/l Experimental result, Key study NOAEL (Daphnia magna, 48 h): 0.5 mg/l Experimental result, Key study |
| Carbon black | EC 50 (Daphnia magna, 24 h): > 5,600 mg/l Experimental result, Key study |
| Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- | EC 50 (Daphnia magna, 48 h): 0.36 mg/l Experimental result, Key study NOAEL (Daphnia magna, 48 h): 0.074 mg/l Experimental result, Key study |
| Silica | EC 50 (Daphnia magna, 24 h): > 1,000 mg/l Experimental result, Key study |
| Benzene, dimethyl- | LC 50 (Water flea (Daphnia magna), 24 h): 150 mg/l Mortality |
| White mineral oil (petroleum) | NOAEL (Daphnia magna, 48 h): >= 100 mg/l Experimental result, Key study |
| Aluminum oxide (Al ₂ O ₃) | LC 50 (Daphnia magna, 48 h): 38.2 mg/l Experimental result, Weight of Evidence study |
| Acetic acid, butyl ester | EC 50 (Daphnia sp., 48 h): 44 mg/l Experimental result, Key study |
| Benzene, ethyl- | LC 50 (Water flea (Daphnia magna), 24 h): 57 - 100 mg/l Mortality |

Chronic hazards to the aquatic environment:

Fish

| | |
|--|--|
| Product: | No data available. |
| Specified substance(s): | |
| Benzene, methyl- | NOAEL (Oncorhynchus kisutch): 1.39 mg/l Experimental result, Key study LOAEL (Oncorhynchus kisutch): 2.77 mg/l Experimental result, Key study |
| Distillates (petroleum), light distillate hydrotreating process, low-boiling | NOAEL (Pimephales promelas): 2.6 mg/l Experimental result, Supporting study |
| Carbon black | NOAEL (Salmo sp.): 17 mg/l QSAR QSAR, Key study |
| Benzene, dimethyl- | NOAEL (Oncorhynchus mykiss): > 1.3 mg/l Experimental result, Key study |
| White mineral oil (petroleum) | NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study |

Aquatic Invertebrates

| | |
|--|--|
| Product: | No data available. |
| Specified substance(s): | |
| Benzene, methyl- | LOAEL (Ceriodaphnia dubia): 2.76 mg/l Experimental result, Key study NOAEL (Ceriodaphnia dubia): 0.74 mg/l Experimental result, Key study |
| Distillates (petroleum), light distillate hydrotreating process, low-boiling | NOAEL (Daphnia magna): 2.6 mg/l Experimental result, Key study |
| Carbon black | EC 50 (Daphnia sp.): 4.9 mg/l QSAR QSAR, Key study |
| Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- | NOAEL (Freshwater invertebrates, species frequently include Daphnia magna or Daphnia pulex): 0.115 mg/l QSAR QSAR, Weight of Evidence study |
| Benzene, dimethyl- | NOAEL (Ceriodaphnia dubia): 1.17 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study |
| White mineral oil (petroleum) | NOAEL (Daphnia magna): >= 1,000 mg/l QSAR QSAR, Supporting study |
| Aluminum oxide (Al2O3) | NOAEL (Daphnia magna): 1.89 mg/l Experimental result, Weight of Evidence study |
| Acetic acid, butyl ester | EC 50 (Daphnia magna): 34 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Daphnia magna): 23 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study |
| Benzene, ethyl- | LC 50 (Ceriodaphnia dubia): 3.2 mg/l Other, Key study NOAEL (Ceriodaphnia dubia): 1 mg/l Other, Key study |

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

| | |
|--|--|
| Product: | No data available. |
| Specified substance(s): | |
| Benzene, methyl- | 100 % (14 d) Detected in water. Experimental result, Weight of Evidence study 86 % Detected in water. Experimental result, Weight of Evidence study |
| Butane | 100 % (385.5 h) Detected in water. Experimental result, Key study |
| Propane | 100 % (385.5 h) Detected in water. Experimental result, Key study 50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study |
| Distillates (petroleum), light distillate hydrotreating process, low-boiling | 90.35 % (28 d) Detected in water. Experimental result, Supporting study |

| | |
|---|---|
| Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- | 80 % (28 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Key study |
| Benzene, dimethyl- | 87.8 % Detected in water. Read-across from supporting substance (structural analogue or surrogate), Key study |
| White mineral oil (petroleum) | 31 % (28 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Supporting study |
| Acetic acid, butyl ester | 83 % Detected in water. Experimental result, Not specified |
| Benzene, ethyl- | 2.7 % Detected in water. Other, Supporting study 70 - 80 % (28 d) Detected in water. Experimental result, Key study |

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

| | |
|--|--|
| Benzene, methyl- | Leuciscus idus, Bioconcentration Factor (BCF): 90 Aquatic sediment Experimental result, Key study |
| Distillates (petroleum), light distillate hydrotreating process, low-boiling | Bioconcentration Factor (BCF): 10 - 2,500 Aquatic sediment Estimated by calculation, Key study |
| Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- | Bioconcentration Factor (BCF): 864.8 Aquatic sediment QSAR, Key study |
| Benzene, dimethyl- | Oncorhynchus mykiss, Bioconcentration Factor (BCF): > 7.6 - < 21.6 Aquatic sediment Experimental result, Key study |
| Acetic acid, butyl ester | Bioconcentration Factor (BCF): 15.3 Aquatic sediment Estimated by calculation, Supporting study |
| Benzene, ethyl- | Carassius auratus, Bioconcentration Factor (BCF): 15.5 Aquatic sediment Other, Supporting study |

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

| | |
|---|--|
| Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- | Log Kow: 4.34 - 4.46 25 °C No Experimental result, Supporting study |
| Benzene, dimethyl- | Log Kow: 2.77 - 3.15 No Not specified, Not specified |
| Benzene, ethyl- | Log Kow: 3.13 - 3.14 No Other, Supporting study |

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

| | |
|--|--------------------|
| Benzene, methyl- | No data available. |
| Butane | No data available. |
| Naphtha (petroleum), heavy alkylate | No data available. |
| Propane | No data available. |
| Distillates (petroleum), light distillate hydrotreating process, low-boiling | No data available. |
| Limestone | No data available. |
| Carbon black | No data available. |
| Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- | No data available. |
| Silica | No data available. |
| Benzene, dimethyl- | No data available. |
| White mineral oil (petroleum) | No data available. |
| Aluminum oxide (Al ₂ O ₃) | No data available. |
| Acetic acid, butyl ester | No data available. |
| Stoddard solvent | No data available. |
| Benzene, ethyl- | No data available. |
| Quartz (SiO ₂) | No data available. |

Other adverse effects: Toxic to aquatic organisms.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated Packaging: No data available.

14. Transport information

DOT

| | |
|-------------------------------|---------------------|
| UN Number: | UN 1950 |
| UN Proper Shipping Name: | Aerosols, flammable |
| Transport Hazard Class(es) | |
| Class: | 2.1 |
| Label(s): | – |
| Packing Group: | Not applicable |
| Marine Pollutant: | No |
| Environmental Hazards: | No |
| Marine Pollutant | No |
| Special precautions for user: | Not regulated. |

IMDG

| | |
|----------------------------|---------------------|
| UN Number: | UN 1950 |
| UN Proper Shipping Name: | Aerosols, flammable |
| Transport Hazard Class(es) | |
| Class: | 2 |
| Label(s): | – |
| EmS No.: | F-D, S-U |
| Packing Group: | – |
| Environmental Hazards: | Yes |

Marine Pollutant No
Special precautions for user: Not regulated.

IATA

UN Number: UN 1950
Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es):
Class: 2.1
Label(s): -
Packing Group: -
Environmental Hazards: Yes
Marine Pollutant No
Special precautions for user: Not regulated.
Cargo aircraft only: Allowed.

15. Regulatory information

US Federal Regulations

Restrictions on use: Not known.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

| <u>Chemical Identity</u> | <u>OSHA hazard(s)</u> |
|----------------------------|--|
| Quartz (SiO ₂) | lung effects immune system effects Cancer kidney effects |
| Benzene | Flammability Cancer Aspiration Eye Blood Skin respiratory tract irritation Central nervous system |

CERCLA Hazardous Substance List (40 CFR 302.4):

| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
|---------------------------|----------------------------|
| Benzene, methyl- | lbs. 1000 |
| Butane | lbs. 100 |
| Propane | lbs. 100 |
| Benzene, dimethyl- | lbs. 100 |
| Acetic acid, butyl ester | lbs. 5000 |
| Benzene, ethyl- | lbs. 1000 |
| Benzene, (1-methylethyl)- | lbs. 5000 |
| Benzene | lbs. 10 |

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Fire Hazard

Immediate (Acute) Health Hazards
Delayed (Chronic) Health Hazard
Flammable aerosol
Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation
Germ Cell Mutagenicity
Carcinogenicity
Toxic to reproduction
Specific Target Organ Toxicity - Single Exposure
Specific Target Organ Toxicity - Repeated Exposure
Aspiration Hazard

SARA 302 Extremely Hazardous Substance

| <u>Chemical Identity</u> | <u>Reportable quantity</u> | <u>Threshold Planning Quantity</u> |
|--------------------------|----------------------------|------------------------------------|
| Stoddard solvent | | |

SARA 304 Emergency Release Notification

| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
|---------------------------|----------------------------|
| Benzene, methyl- | lbs. 1000 |
| Butane | lbs. 100 |
| Propane | lbs. 100 |
| Benzene, dimethyl- | lbs. 100 |
| Acetic acid, butyl ester | lbs. 5000 |
| Stoddard solvent | |
| Benzene, ethyl- | lbs. 1000 |
| Benzene, (1-methylethyl)- | lbs. 5000 |
| Benzene | lbs. 10 |

SARA 311/312 Hazardous Chemical

| <u>Chemical Identity</u> | <u>Threshold Planning Quantity</u> |
|--|------------------------------------|
| Benzene, methyl- | 10000 lbs |
| Butane | 10000 lbs |
| Naphtha (petroleum), heavy alkylate | 10000 lbs |
| Propane | 10000 lbs |
| Distillates (petroleum), light distillate hydrotreating process, low-boiling | 10000 lbs |
| Limestone | 10000 lbs |
| Carbon black | 10000 lbs |
| Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- | 10000 lbs |
| Silica | 10000 lbs |
| Benzene, dimethyl- | 10000 lbs |
| White mineral oil (petroleum) | 10000 lbs |
| Aluminum oxide (Al ₂ O ₃) | 10000 lbs |
| Acetic acid, butyl ester | 10000 lbs |
| Stoddard solvent | 10000 lbs |
| Benzene, ethyl- | 10000 lbs |
| Quartz (SiO ₂) | 10000 lbs |
| Benzene, (1-methylethyl)- | 10000 lbs |
| Benzene | 10000 lbs |

SARA 313 (TRI Reporting)

| <u>Chemical Identity</u> | <u>Reporting threshold for other users</u> | <u>Reporting threshold for manufacturing and processing</u> |
|--------------------------|--|---|
| Benzene, methyl- | lbs | lbs. |
| Benzene, ethyl- | lbs | lbs. |

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

| | |
|----------------------------|----------------------------------|
| Benzene, methyl- | Developmental toxin. 03 2008 |
| Carbon black | Carcinogenic. 05 2011 |
| Benzene, ethyl- | Carcinogenic. 05 2011 |
| Quartz (SiO ₂) | Carcinogenic. 05 2011 |
| Benzene, (1-methylethyl)- | Carcinogenic. 05 2011 |
| Benzene | Developmental toxin. 03 2008 |
| Benzene | Carcinogenic. 05 2011 |
| Benzene | Male reproductive toxin. 03 2008 |

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Benzene, methyl-
Butane
Naphtha (petroleum), heavy alkylate
Propane
Distillates (petroleum), light distillate hydrotreating process, low-boiling
Limestone
Carbon black
White mineral oil (petroleum)
Benzene, ethyl-
Quartz (SiO₂)

US. Massachusetts RTK - Substance List

Chemical Identity

Quartz (SiO₂)
Benzene

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Benzene, methyl-
Butane
Naphtha (petroleum), heavy alkylate
Propane
Distillates (petroleum), light distillate hydrotreating process, low-boiling
Limestone
Carbon black

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol

Stoddard solvent

Stockholm convention

Stoddard solvent

--

Rotterdam convention

Stoddard solvent

--

Kyoto protocol

Inventory Status:

| | |
|--|--|
| Australia AICS: | On or in compliance with the inventory |
| Canada DSL Inventory List: | On or in compliance with the inventory |
| EINECS, ELINCS or NLP: | Not in compliance with the inventory. |
| Japan (ENCS) List: | Not in compliance with the inventory. |
| China Inv. Existing Chemical Substances: | Not in compliance with the inventory. |
| Korea Existing Chemicals Inv. (KECI): | Not in compliance with the inventory. |
| Canada NDSL Inventory: | Not in compliance with the inventory. |
| Philippines PICCS: | On or in compliance with the inventory |
| US TSCA Inventory: | On or in compliance with the inventory |
| New Zealand Inventory of Chemicals: | On or in compliance with the inventory |
| Japan ISHL Listing: | Not in compliance with the inventory. |
| Japan Pharmacopoeia Listing: | Not in compliance with the inventory. |
| Mexico INSQ: | Not in compliance with the inventory. |
| Ontario Inventory: | Not in compliance with the inventory. |
| Taiwan Chemical Substance Inventory: | On or in compliance with the inventory |

| |
|--|
| 16. Other information, including date of preparation or last revision |
|--|

| | |
|------------------------------|---|
| Issue Date: | 10/25/2019 |
| Revision Information: | No data available. |
| Version #: | 1.0 |
| Further Information: | No data available. |
| Disclaimer: | This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment. |