# SAFETY DATA SHEET

## 1. Identification

**Product identifier** **INTER-SEAL Joint & Seam Sealer**

**Other means of identification**

**Product code** 1512

**Recommended use** Seam Sealer

**Recommended restrictions** No other uses are advised.

**Manufacturer/Importer/Supplier/Distributor information**

**Manufacturer**

**Company name** International Epoxies & Sealers

**Address** 30241Commerce Drive
San Antonio, FL 33576
United States

**Telephone**

| | | |
|---|---|---|
| TECH SUPPORT | 352-588-2400 |
| SALES | 352-588-2400 |
| PHONE | 352-588-2400 |

**Website** www.useies.com

**E-mail** mail@useies.com

**Emergency phone number** EMERGENCY 24 Hrs. INFOTRAC: 800-535-5053
Outside U.S. call collect: 1-352-323-3500

## 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards**

| | |
|---|---|
| Acute toxicity, oral | Category 4 |
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2A |
| Carcinogenicity | Category 1A |
| Reproductive toxicity | Category 2 |
| Specific target organ toxicity, repeated exposure | Category 1 |
| Aspiration hazard | Category 1 |

**Environmental hazards**

| | |
|---|---|
| Hazardous to the aquatic environment, acute hazard | Category 2 |
| Hazardous to the aquatic environment, long-term hazard | Category 2 |

**OSHA defined hazards** Not classified.

**Label elements**

**Signal word** Danger

**Hazard statement** Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

**Precautionary statement**

| | |
|---|---|
| **Prevention** | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. |
| **Response** | If swallowed: Immediately call a poison center/doctor. Rinse mouth. Do NOT induce vomiting. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage. |
| **Storage** | Store locked up. |
| **Disposal** | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| **Hazard(s) not otherwise classified (HNOC)** | None known. |
| **Supplemental information** | 69.04% of the mixture consists of component(s) of unknown acute oral toxicity. 69.04% of the mixture consists of component(s) of unknown acute dermal toxicity. 47.61% of the mixture consists of component(s) of unknown acute inhalation toxicity. 69.04% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 69.04% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment. |

## 3. Composition/information on ingredients

**Mixtures**

| Chemical name | Common name and synonyms | CAS number | % |
|---|---|---|---|
| Talc | | 14807-96-6 | 30 - < 40 |
| Toluene | | 108-88-3 | 10 - < 20 |
| BENZENE, M-DIMETHYL- | | 108-38-3 | 5 - < 10 |
| BENZENE, O-DIMETHYL | | 95-47-6 | 1 - < 3 |
| BENZENE, P-DIMETHYL- | | 106-42-3 | 1 - < 3 |
| ETHYLBENZENE | | 100-41-4 | 1 - < 3 |
| Titanium Dioxide | | 13463-67-7 | 1 - < 3 |
| Silicon Dioxide (as Amorphous Silica; See Silica), Particulate | | 112945-52-5 | < 1 |
| Crystalline Quartz | | 14808-60-7 | < 0.3 |
| Silica | | 7631-86-9 | < 0.1 |

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

| | |
|---|---|
| **Inhalation** | Move to fresh air. Call a physician if symptoms develop or persist. |
| **Skin contact** | Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. |
| **Eye contact** | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. |
| **Ingestion** | Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. |
| **Most important symptoms/effects, acute and delayed** | Aspiration may cause pulmonary edema and pneumonitis. Dizziness. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects. |
| **Indication of immediate medical attention and special treatment needed** | Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed. |
| **General information** | IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. |

## 5. Fire-fighting measures

| | |
|---|---|
| **Suitable extinguishing media** | Foam. Powder. Carbon dioxide (CO2). |

| | |
|---|---|
| **Unsuitable extinguishing media** | Do not use water jet as an extinguisher, as this will spread the fire. |
| **Specific hazards arising from the chemical** | During fire, gases hazardous to health may be formed. |
| **Special protective equipment and precautions for firefighters** | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| **Fire fighting equipment/instructions** | Use water spray to cool unopened containers. |
| **Specific methods** | Use standard firefighting procedures and consider the hazards of other involved materials. |
| **General fire hazards** | No unusual fire or explosion hazards noted. |

## 6. Accidental release measures

| | |
|---|---|
| **Personal precautions, protective equipment and emergency procedures** | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
| **Methods and materials for containment and cleaning up** | This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.<br><br>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.<br><br>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.<br><br>Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS. |
| **Environmental precautions** | Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. |

## 7. Handling and storage

| | |
|---|---|
| **Precautions for safe handling** | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. |
| **Conditions for safe storage, including any incompatibilities** | Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). |

## 8. Exposure controls/personal protection

**Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components | Type | Value | Form |
|---|---|---|---|
| BENZENE, M-DIMETHYL- (CAS 108-38-3) | PEL | 435 mg/m3<br>100 ppm | |
| BENZENE, O-DIMETHYL (CAS 95-47-6) | PEL | 435 mg/m3<br>100 ppm | |
| BENZENE, P-DIMETHYL- (CAS 106-42-3) | PEL | 435 mg/m3<br>100 ppm | |
| Crystalline Quartz (CAS 14808-60-7) | PEL | 0.05 mg/m3 | |
| ETHYLBENZENE (CAS 100-41-4) | PEL | 435 mg/m3 | |

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components | Type | Value | Form |
|---|---|---|---|
| | | 100 ppm | |
| Titanium Dioxide (CAS 13463-67-7) | PEL | 15 mg/m3 | Total dust. |

**US. OSHA Table Z-2 (29 CFR 1910.1000)**

| Components | Type | Value |
|---|---|---|
| Toluene (CAS 108-88-3) | Ceiling | 300 ppm |
| | TWA | 200 ppm |

**US. OSHA Table Z-3 (29 CFR 1910.1000)**

| Components | Type | Value | Form |
|---|---|---|---|
| Crystalline Quartz (CAS 14808-60-7) | TWA | 0.1 mg/m3 | Respirable. |
| | | 2.4 mppcf | Respirable. |
| Talc (CAS 14807-96-6) | TWA | 0.3 mg/m3 | Total dust. |
| | | 0.1 mg/m3 | Respirable. |
| | | 20 mppcf | |
| | | 2.4 mppcf | Respirable. |
| Titanium Dioxide (CAS 13463-67-7) | TWA | 5 mg/m3 | Respirable fraction. |
| | | 15 mg/m3 | Total dust. |
| | | 50 mppcf | Total dust. |
| | | 15 mppcf | Respirable fraction. |

**US. ACGIH Threshold Limit Values**

| Components | Type | Value | Form |
|---|---|---|---|
| BENZENE, M-DIMETHYL- (CAS 108-38-3) | STEL | 150 ppm | |
| | TWA | 100 ppm | |
| BENZENE, O-DIMETHYL (CAS 95-47-6) | STEL | 150 ppm | |
| | TWA | 100 ppm | |
| BENZENE, P-DIMETHYL- (CAS 106-42-3) | STEL | 150 ppm | |
| | TWA | 100 ppm | |
| Crystalline Quartz (CAS 14808-60-7) | TWA | 0.025 mg/m3 | Respirable fraction. |
| ETHYLBENZENE (CAS 100-41-4) | TWA | 20 ppm | |
| Talc (CAS 14807-96-6) | TWA | 2 mg/m3 | Respirable fraction. |
| Titanium Dioxide (CAS 13463-67-7) | TWA | 10 mg/m3 | |
| Toluene (CAS 108-88-3) | TWA | 20 ppm | |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components | Type | Value | Form |
|---|---|---|---|
| BENZENE, M-DIMETHYL- (CAS 108-38-3) | STEL | 655 mg/m3 | |
| | | 150 ppm | |
| | TWA | 435 mg/m3 | |
| | | 100 ppm | |
| BENZENE, O-DIMETHYL (CAS 95-47-6) | STEL | 655 mg/m3 | |
| | | 150 ppm | |
| | TWA | 435 mg/m3 | |
| | | 100 ppm | |
| BENZENE, P-DIMETHYL- (CAS 106-42-3) | STEL | 655 mg/m3 | |
| | | 150 ppm | |
| | TWA | 435 mg/m3 | |
| | | 100 ppm | |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components | Type | Value | Form |
|---|---|---|---|
| Crystalline Quartz (CAS 14808-60-7) | TWA | 0.05 mg/m3 | Respirable dust. |
| ETHYLBENZENE (CAS 100-41-4) | STEL | 545 mg/m3 | |
| | | 125 ppm | |
| | TWA | 435 mg/m3 | |
| | | 100 ppm | |
| Talc (CAS 14807-96-6) | TWA | 2 mg/m3 | Respirable. |
| Toluene (CAS 108-88-3) | STEL | 560 mg/m3 | |
| | | 150 ppm | |
| | TWA | 375 mg/m3 | |
| | | 100 ppm | |

**Biological limit values**

**ACGIH Biological Exposure Indices**

| Components | Value | Determinant | Specimen | Sampling Time |
|---|---|---|---|---|
| BENZENE, M-DIMETHYL- (CAS 108-38-3) | 1.5 g/g | Methylhippuric acids | Creatinine in urine | * |
| BENZENE, O-DIMETHYL (CAS 95-47-6) | 1.5 g/g | Methylhippuric acids | Creatinine in urine | * |
| BENZENE, P-DIMETHYL- (CAS 106-42-3) | 1.5 g/g | Methylhippuric acids | Creatinine in urine | * |
| ETHYLBENZENE (CAS 100-41-4) | 0.15 g/g | Sum of mandelic acid and phenylglyoxylic acid | Creatinine in urine | * |
| Toluene (CAS 108-88-3) | 0.3 mg/g | o-Cresol, with hydrolysis | Creatinine in urine | * |
| | 0.03 mg/l | Toluene | Urine | * |
| | 0.02 mg/l | Toluene | Blood | * |

* - For sampling details, please see the source document.

**Exposure guidelines** Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled. Occupational Exposure Limits are not relevant to the current physical form of the product.

**US - California OELs: Skin designation**

Toluene (CAS 108-88-3) Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**

Toluene (CAS 108-88-3) Skin designation applies.

**Appropriate engineering controls** 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. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

**Individual protection measures, such as personal protective equipment**

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

**Skin protection**

**Hand protection** Wear appropriate chemical resistant gloves.

**Other** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection** Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

| | |
|---|---|
| **General hygiene considerations** | Observe any medical surveillance requirements. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |

## 9. Physical and chemical properties

| | |
|---|---|
| **Appearance** | |
| **Physical state** | Solid. |
| **Form** | Solid. Paste. |
| **Color** | White |
| **Odor** | Solvent. |
| **Odor threshold** | Not available. |
| **pH** | Not available. |
| **Melting point/freezing point** | -138.82 °F (-94.9 °C) estimated |
| **Initial boiling point and boiling range** | 231.08 °F (110.6 °C) estimated |
| **Flash point** | 39.2 °F (4.0 °C) estimated |
| **Evaporation rate** | Not available. |
| **Flammability (solid, gas)** | Not available. |
| **Upper/lower flammability or explosive limits** | |
| **Flammability limit - lower (%)** | 1.1 % estimated |
| **Flammability limit - upper (%)** | 7 % estimated |
| **Explosive limit - lower (%)** | Not available. |
| **Explosive limit - upper (%)** | Not available. |
| **Vapor pressure** | 11.92 hPa estimated |
| **Vapor density** | Not available. |
| **Relative density** | Not available. |
| **Solubility(ies)** | |
| **Solubility (water)** | Not available. |
| **Partition coefficient (n-octanol/water)** | Not available. |
| **Auto-ignition temperature** | 870.01 °F (465.56 °C) estimated |
| **Decomposition temperature** | Not available. |
| **Viscosity** | Not available. |
| **Other information** | |
| **Density** | 1.87 g/cm3 estimated |
| **Explosive properties** | Not explosive. |
| **Oxidizing properties** | Not oxidizing. |
| **Percent volatile** | 29.76 w/w % By Weight<br>44.05 v/v % By Volume |
| **Specific gravity** | 1.87 estimated |

## 10. Stability and reactivity

| | |
|---|---|
| **Reactivity** | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| **Chemical stability** | Material is stable under normal conditions. |
| **Possibility of hazardous reactions** | Hazardous polymerization does not occur. |
| **Conditions to avoid** | Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| **Incompatible materials** | Strong acids. Strong oxidizing agents. |
| **Hazardous decomposition products** | No hazardous decomposition products are known. |

## 11. Toxicological information

**Information on likely routes of exposure**

| | |
|---|---|
| **Inhalation** | No adverse effects due to inhalation are expected. |
| **Skin contact** | Causes skin irritation. |
| **Eye contact** | Causes serious eye irritation. |
| **Ingestion** | Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. |
| **Symptoms related to the physical, chemical and toxicological characteristics** | Aspiration may cause pulmonary edema and pneumonitis. Dizziness. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. |

**Information on toxicological effects**

**Acute toxicity** May be fatal if swallowed and enters airways.

| Components | Species | Test Results |
|---|---|---|
| BENZENE, M-DIMETHYL- (CAS 108-38-3) | | |
| **Acute** | | |
| **Oral** | | |
| LD50 | Rat | 4300 mg/kg |
| BENZENE, O-DIMETHYL (CAS 95-47-6) | | |
| **Acute** | | |
| **Oral** | | |
| LD50 | Rat | 4300 mg/kg |
| BENZENE, P-DIMETHYL- (CAS 106-42-3) | | |
| **Acute** | | |
| **Oral** | | |
| LD50 | Rat | 3523 - 8600 mg/kg |
| ETHYLBENZENE (CAS 100-41-4) | | |
| **Acute** | | |
| **Oral** | | |
| LD50 | Rat | 3500 mg/kg |

* Estimates for product may be based on additional component data not shown.

| | |
|---|---|
| **Skin corrosion/irritation** | Causes skin irritation. |
| **Serious eye damage/eye irritation** | Causes serious eye irritation. |
| **Respiratory or skin sensitization** | |
| **Respiratory sensitization** | Not a respiratory sensitizer. |
| **Skin sensitization** | This product is not expected to cause skin sensitization. |
| **Germ cell mutagenicity** | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| **Carcinogenicity** | In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. |

**IARC Monographs. Overall Evaluation of Carcinogenicity**

| | |
|---|---|
| BENZENE, M-DIMETHYL- (CAS 108-38-3) | 3 Not classifiable as to carcinogenicity to humans. |
| BENZENE, O-DIMETHYL (CAS 95-47-6) | 3 Not classifiable as to carcinogenicity to humans. |
| BENZENE, P-DIMETHYL- (CAS 106-42-3) | 3 Not classifiable as to carcinogenicity to humans. |
| Crystalline Quartz (CAS 14808-60-7) | 1 Carcinogenic to humans. |
| ETHYLBENZENE (CAS 100-41-4) | 2B Possibly carcinogenic to humans. |
| Talc (CAS 14807-96-6) | 2B Possibly carcinogenic to humans.<br>3 Not classifiable as to carcinogenicity to humans. |
| Titanium Dioxide (CAS 13463-67-7) | 2B Possibly carcinogenic to humans. |
| Toluene (CAS 108-88-3) | 3 Not classifiable as to carcinogenicity to humans. |

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

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

| | |
|---|---|
| Crystalline Quartz (CAS 14808-60-7) | Known To Be Human Carcinogen. |

**Reproductive toxicity** Suspected of damaging fertility or the unborn child.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** May be fatal if swallowed and enters airways.

**Chronic effects** Causes damage to organs through prolonged or repeated exposure. Prolonged exposure may cause chronic effects.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

| Components | | Species | Test Results |
|---|---|---|---|
| BENZENE, M-DIMETHYL- (CAS 108-38-3) | | | |
| **Aquatic** | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 2.81 - 5 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 8.4 mg/l, 96 hours |
| BENZENE, O-DIMETHYL (CAS 95-47-6) | | | |
| **Aquatic** | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 0.78 - 2.51 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 5.59 - 11.6 mg/l, 96 hours |
| BENZENE, P-DIMETHYL- (CAS 106-42-3) | | | |
| **Aquatic** | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 3.55 - 6.31 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 2.6 mg/l, 96 hours |
| ETHYLBENZENE (CAS 100-41-4) | | | |
| **Aquatic** | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 1.37 - 4.4 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 7.5 - 11 mg/l, 96 hours |
| Titanium Dioxide (CAS 13463-67-7) | | | |
| **Aquatic** | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | > 1000 mg/l, 48 hours |
| Fish | LC50 | Mummichog (Fundulus heteroclitus) | > 1000 mg/l, 96 hours |
| Toluene (CAS 108-88-3) | | | |
| **Aquatic** | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 5.46 - 9.83 mg/l, 48 hours |

| Components | | Species | Test Results |
|---|---|---|---|
| Fish | LC50 | Coho salmon,silver salmon (Oncorhynchus kisutch) | 8.11 mg/l, 96 hours |

* Estimates for product may be based on additional component data not shown.

**Persistence and degradability**

**Bioaccumulative potential**

**Partition coefficient n-octanol / water (log Kow)**

| | |
|---|---|
| BENZENE, M-DIMETHYL- | 3.2 |
| BENZENE, O-DIMETHYL | 3.12 |
| BENZENE, P-DIMETHYL- | 3.15 |
| ETHYLBENZENE | 3.15 |
| Toluene | 2.73 |

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

The following transportation information is provided based on the manufacturer's interpretation of shipping regulations. Each shipper is responsible for identifying, naming, marking, and labeling prior to offering for transport.

**DOT**

**UN number** UN1133
**UN proper shipping name** Adhesives, containing a flammable liquid, MARINE POLLUTANT
**Transport hazard class(es)**
**Class** 3
**Subsidiary risk** -
**Label(s)** 3
**Packing group** II
**Environmental hazards**
**Marine pollutant** Yes
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.
**Special provisions** 149, B52, IB2, T4, TP1, TP8
**Packaging exceptions** 150
**Packaging non bulk** 173
**Packaging bulk** 242

**IATA**

**UN number** UN1133
**UN proper shipping name** Adhesives containing flammable liquid
**Transport hazard class(es)**
**Class** 3
**Subsidiary risk** -
**Packing group** II
**Environmental hazards** No.
**ERG Code** 3L
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Other information**

| | |
|---|---|
| **Passenger and cargo aircraft** | Allowed with restrictions. |
| **Cargo aircraft only** | Allowed with restrictions. |

**IMDG**

| | |
|---|---|
| **UN number** | UN1133 |
| **UN proper shipping name** | ADHESIVES containing flammable liquid, MARINE POLLUTANT |
| **Transport hazard class(es)** | |
| **Class** | 3 |
| **Subsidiary risk** | - |
| **Packing group** | II |
| **Environmental hazards** | |
| **Marine pollutant** | Yes |
| **EmS** | F-E, S-D |
| **Special precautions for user** | Read safety instructions, SDS and emergency procedures before handling. |

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

**DOT**


**IATA; IMDG**


**Marine pollutant**

**General information** IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

BENZENE, M-DIMETHYL- (CAS 108-38-3) Listed.

| | |
|---|---|
| BENZENE, O-DIMETHYL (CAS 95-47-6) | Listed. |
| BENZENE, P-DIMETHYL- (CAS 106-42-3) | Listed. |
| ETHYLBENZENE (CAS 100-41-4) | Listed. |
| Toluene (CAS 108-88-3) | Listed. |

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

| Chemical name | CAS number | % by wt. |
|---|---|---|
| BENZENE, M-DIMETHYL- | 108-38-3 | 5 - < 10 |
| BENZENE, O-DIMETHYL | 95-47-6 | 1 - < 3 |
| BENZENE, P-DIMETHYL- | 106-42-3 | 1 - < 3 |
| ETHYLBENZENE | 100-41-4 | 1 - < 3 |
| Toluene | 108-88-3 | 10 - < 20 |

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

BENZENE, M-DIMETHYL- (CAS 108-38-3)
BENZENE, O-DIMETHYL (CAS 95-47-6)
BENZENE, P-DIMETHYL- (CAS 106-42-3)
ETHYLBENZENE (CAS 100-41-4)
Toluene (CAS 108-88-3)

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

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

| | |
|---|---|
| Toluene (CAS 108-88-3) | 6594 |

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

| | |
|---|---|
| Toluene (CAS 108-88-3) | 35 %WV |

**DEA Exempt Chemical Mixtures Code Number**

| | |
|---|---|
| Toluene (CAS 108-88-3) | 594 |

**US state regulations** WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

| | |
|---|---|
| Crystalline Quartz (CAS 14808-60-7) | Listed: October 1, 1988 |
| ETHYLBENZENE (CAS 100-41-4) | Listed: June 11, 2004 |
| Titanium Dioxide (CAS 13463-67-7) | Listed: September 2, 2011 |

**US - California Proposition 65 - CRT: Listed date/Developmental toxin**

| | |
|---|---|
| Toluene (CAS 108-88-3) | Listed: January 1, 1991 |

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

BENZENE, M-DIMETHYL- (CAS 108-38-3)
BENZENE, O-DIMETHYL (CAS 95-47-6)
BENZENE, P-DIMETHYL- (CAS 106-42-3)
Crystalline Quartz (CAS 14808-60-7)
ETHYLBENZENE (CAS 100-41-4)
Talc (CAS 14807-96-6)
Titanium Dioxide (CAS 13463-67-7)

Toluene (CAS 108-88-3)

**International Inventories**

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|---|---|---|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| Canada | Domestic Substances List (DSL) | No |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | No |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | No |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

**Issue date** 10-13-2015

**Revision date** 09-12-2025

**Version #** 02

**Disclaimer** IES cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

**Revision information** This document has undergone significant changes and should be reviewed in its entirety.