# SAFETY DATA SHEET

## 1. Identification

| | |
|---|---|
| **Product identifier** | **Markers, GPX Classic (Xylene)** |
| **Other means of identification** | None. |
| **Recommended use** | Marking. |
| **Recommended restrictions** | None known. |

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

| | | |
|---|---|---|
| **Company name** | Diagraph Marking & Coding | |
| **Address** | 5307 Meadowland Parkway Marion IL 62959 | |
| **Telephone** | 1-800-521-3047 | |
| **E-mail** | msds@diagraphmsp.com | |
| **Contact person** | Customer Service | |
| **Emergency phone number** | Emergency telephone | 800-535-5053 (US only)<br>+1-352-323-3500 international |

## 2. Hazard(s) identification

| | | |
|---|---|---|
| **Physical hazards** | Flammable liquids | Category 3 |
| **Health hazards** | Acute toxicity, dermal | Category 4 |
| | Acute toxicity, inhalation | Category 4 |
| | Skin corrosion/irritation | Category 2 |
| | Serious eye damage/eye irritation | Category 2 |
| | Carcinogenicity | Category 2 |
| | Specific target organ toxicity, single exposure | Category 3 respiratory tract irritation |
| | Specific target organ toxicity, single exposure | Category 3 narcotic effects |
| | Specific target organ toxicity, repeated exposure | Category 2 (Central nervous system, Liver, Kidney) |
| | Aspiration hazard | Category 1 |
| **Environmental hazards** | Hazardous to the aquatic environment, acute hazard | Category 2 |

**OSHA defined hazards** Not classified.

**Label elements**

**Signal word** Danger

**Hazard statement** Flammable liquid and vapor. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life.

**Precautionary statement**

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

| | |
|---|---|
| **Response** | If exposed or concerned: Get medical advice/attention. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. 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. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish. |
| **Storage** | Store in a well-ventilated place. Keep cool. Keep container tightly closed. 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** | None. |

## 3. Composition/information on ingredients

**Mixtures**

| Chemical name | CAS number | % |
|---|---|---|
| Xylene (mix) | 1330-20-7 | 40-80 |
| Titanium dioxide | 13463-67-7 | 0-30 |
| Ethylbenzene | 100-41-4 | 5-20 |
| 1-Methoxy-2-propanol | 107-98-2 | 0-20 |
| Carbon black | 1333-86-4 | 0-10 |
| Kaolin, calcined | 92704-41-1 | 0-10 |
| 2-Methoxy-1-methylethyl acetate | 108-65-6 | 0-5 |
| 1-Propanol | 71-23-8 | 0-2.9 |
| Cumene | 98-82-8 | 0.4 - 0.8 |
| Toluene | 108-88-3 | <0.2 |

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

## 4. First-aid measures

| | |
|---|---|
| **Inhalation** | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell. |
| **Skin contact** | Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. 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** | Abdominal pain. Decrease in motor functions. Behavioral changes. Narcosis. Nausea, vomiting. Headache. May cause drowsiness and dizziness. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. Edema. Jaundice. Prolonged exposure may cause chronic effects. |
| **Indication of immediate medical attention and special treatment needed** | Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed. |
| **General information** | Take off all contaminated clothing immediately. 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. Wash contaminated clothing before reuse. |

## 5. Fire-fighting measures

| | |
|---|---|
| **Suitable extinguishing media** | Water fog. Foam. Dry chemical 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** | Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. 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** | In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. |
| **Specific methods** | Use standard firefighting procedures and consider the hazards of other involved materials. |
| **General fire hazards** | Flammable liquid and vapor. |

## 6. Accidental release measures

| | |
|---|---|
| **Personal precautions, protective equipment and emergency procedures** | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. 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** | Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains.<br><br>Large Spills: Stop the flow of material, if this is without risk. A vapor-suppressing foam may be used to reduce vapors. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.<br><br>Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. 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. 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. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. |
| **Conditions for safe storage, including any incompatibilities** | Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS). |

## 8. Exposure controls/personal protection

**Occupational exposure limits**

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

| Components | Type | Value | Form |
|---|---|---|---|
| 1-Propanol (CAS 71-23-8) | PEL | 500 mg/m3<br>200 ppm | |

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

| Components | Type | Value | Form |
|---|---|---|---|
| Carbon black (CAS 1333-86-4) | PEL | 3.5 mg/m3 | |
| Cumene (CAS 98-82-8) | PEL | 245 mg/m3 | |
| | | 50 ppm | |
| Ethylbenzene (CAS 100-41-4) | PEL | 435 mg/m3 | |
| | | 100 ppm | |
| Titanium dioxide (CAS 13463-67-7) | PEL | 15 mg/m3 | Total dust. |
| Xylene (mix) (CAS 1330-20-7) | PEL | 435 mg/m3 | |
| | | 100 ppm | |

**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 |
|---|---|---|---|
| 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 |
|---|---|---|---|
| 1-Methoxy-2-propanol (CAS 107-98-2) | STEL | 100 ppm | |
| | TWA | 50 ppm | |
| 1-Propanol (CAS 71-23-8) | TWA | 100 ppm | |
| Carbon black (CAS 1333-86-4) | TWA | 3 mg/m3 | Inhalable fraction. |
| Cumene (CAS 98-82-8) | TWA | 50 ppm | |
| Ethylbenzene (CAS 100-41-4) | TWA | 20 ppm | |
| Titanium dioxide (CAS 13463-67-7) | TWA | 10 mg/m3 | |
| Toluene (CAS 108-88-3) | TWA | 20 ppm | |
| Xylene (mix) (CAS 1330-20-7) | STEL | 150 ppm | |
| | TWA | 100 ppm | |

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

| Components | Type | Value |
|---|---|---|
| 1-Methoxy-2-propanol (CAS 107-98-2) | STEL | 540 mg/m3 |
| | | 150 ppm |
| | TWA | 360 mg/m3 |
| | | 100 ppm |
| 1-Propanol (CAS 71-23-8) | STEL | 625 mg/m3 |
| | | 250 ppm |
| | TWA | 500 mg/m3 |
| | | 200 ppm |
| Carbon black (CAS 1333-86-4) | TWA | 3.5 mg/m3 |
| Cumene (CAS 98-82-8) | TWA | 245 mg/m3 |
| | | 50 ppm |

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

| Components | Type | Value |
|---|---|---|
| Ethylbenzene (CAS 100-41-4) | STEL | 545 mg/m3 |
| | | 125 ppm |
| | TWA | 435 mg/m3 |
| | | 100 ppm |
| 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 |
|---|---|---|---|---|
| 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 | * |
| Xylene (mix) (CAS 1330-20-7) | 1.5 g/g | Methylhippuric acids | Creatinine in urine | * |

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

**Exposure guidelines**

**US - California OELs: Skin designation**

| | |
|---|---|
| 1-Methoxy-2-propanol (CAS 107-98-2) | Can be absorbed through the skin. |
| 1-Propanol (CAS 71-23-8) | Can be absorbed through the skin. |
| Cumene (CAS 98-82-8) | Can be absorbed through the skin. |
| Toluene (CAS 108-88-3) | Can be absorbed through the skin. |

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

| | |
|---|---|
| 1-Propanol (CAS 71-23-8) | Skin designation applies. |
| Cumene (CAS 98-82-8) | Skin designation applies. |
| Toluene (CAS 108-88-3) | Skin designation applies. |

**US - Tennessee OELs: Skin designation**

| | |
|---|---|
| Cumene (CAS 98-82-8) | Can be absorbed through the skin. |

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

| | |
|---|---|
| 1-Propanol (CAS 71-23-8) | Can be absorbed through the skin. |
| Cumene (CAS 98-82-8) | Can be absorbed through the skin. |

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

| | |
|---|---|
| Cumene (CAS 98-82-8) | Can be absorbed through the skin. |

**Appropriate engineering controls**

Explosion-proof general and local exhaust ventilation. 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. Eye wash facilities and emergency shower must be available when handling this product.

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

**Eye/face protection**

Chemical respirator with organic vapor cartridge and full facepiece. Wear safety glasses with side shields (or goggles) and a face shield.

**Skin protection**

**Hand protection**

The following glove materials are recommended: Nitrile.
Full contact: Use gloves classified protection index 3 with breakthrough time of 5 minutes.
Minimum glove thickness 0.4 ± 0.05 mm.

**Other**

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

**Respiratory protection**

Chemical respirator with organic vapor cartridge and full facepiece.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

| | |
|---|---|
| **General hygiene considerations** | When using do not smoke. 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** | Liquid. |
| **Form** | Liquid. |
| **Color** | According to product specification. |
| **Odor** | Characteristic. |
| **Odor threshold** | Not available. |
| **pH** | Not available. |
| **Melting point/freezing point** | Not available. |
| **Initial boiling point and boiling range** | 248 °F (120 °C) |
| **Flash point** | 75.2 °F (24.0 °C) |
| **Evaporation rate** | Not available. |
| **Flammability (solid, gas)** | Not applicable. |
| **Upper/lower flammability or explosive limits** | |
| **Flammability limit - lower (%)** | 1 % v/v |
| **Flammability limit - upper (%)** | 7.8 % v/v |
| **Explosive limit - lower (%)** | Not available. |
| **Explosive limit - upper (%)** | Not available. |
| **Vapor pressure** | 9.5 hPa at 20°C. |
| **Vapor density** | Not available. |
| **Relative density** | Not available. |
| **Solubility(ies)** | |
| **Solubility (water)** | Fully miscible. |
| **Partition coefficient (n-octanol/water)** | Not available. |
| **Auto-ignition temperature** | Not available. |
| **Decomposition temperature** | Not available. |
| **Viscosity** | Not available. |
| **Other information** | |
| **Explosive properties** | Not explosive. |
| **Oxidizing properties** | Not oxidizing. |

## 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** | No dangerous reaction known under conditions of normal use. |
| **Conditions to avoid** | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| **Incompatible materials** | Strong acids. Strong oxidizing agents. Halogens. |
| **Hazardous decomposition products** | No hazardous decomposition products are known. |

## 11. Toxicological information

**Information on likely routes of exposure**

| | |
|---|---|
| **Inhalation** | Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause irritation to the respiratory system. May cause drowsiness and dizziness. |

| | |
|---|---|
| **Skin contact** | Harmful in contact with skin. Causes skin irritation. |
| **Eye contact** | Causes serious eye irritation. |
| **Ingestion** | 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** | Abdominal pain. Behavioral changes. Decrease in motor functions. Narcosis. Nausea, vomiting. Jaundice. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. May cause drowsiness and dizziness. Skin irritation. May cause redness and pain. Edema. |

**Information on toxicological effects**

**Acute toxicity** Harmful if inhaled. Harmful in contact with skin. May be fatal if swallowed and enters airways.

| Components | Species | Test Results |
|---|---|---|
| 1-Methoxy-2-propanol (CAS 107-98-2) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rabbit | 13000 mg/kg |
| **Inhalation** | | |
| LC50 | Rat | >= 6 mg/l, 4 Hours |
| **Oral** | | |
| LD50 | Rat | > 5000 mg/kg |
| Carbon black (CAS 1333-86-4) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rabbit | > 3000 mg/kg |
| **Oral** | | |
| LD50 | Rat | > 8000 mg/kg |
| Cumene (CAS 98-82-8) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rabbit | > 3160 mg/kg, 24 Hours |
| **Inhalation** | | |
| LC50 | Rat | 8000 ppm, 4 Hours |
| **Oral** | | |
| LD50 | Rat | 2910 mg/kg |
| Ethylbenzene (CAS 100-41-4) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rabbit | 15400 mg/kg |
| **Inhalation** | | |
| LC50 | Rat | 17.4 mg/l, 4 hours |
| **Oral** | | |
| LD50 | Rat | 3500 - 4700 mg/kg |
| Toluene (CAS 108-88-3) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rabbit | 12200 mg/kg |
| **Inhalation** | | |
| *Vapor* | | |
| LC50 | Rat | 28.1 mg/l, 4 Hours |

| Components | Species | Test Results |
|---|---|---|
| Xylene (mix) (CAS 1330-20-7) | | |
| **Acute** | | |
| **Oral** | | |
| LD50 | Rat | 3523 mg/kg |

**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** Suspected of causing cancer.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

| | |
|---|---|
| Carbon black (CAS 1333-86-4) | 2B Possibly carcinogenic to humans. |
| Cumene (CAS 98-82-8) | 2B Possibly carcinogenic to humans. |
| Ethylbenzene (CAS 100-41-4) | 2B Possibly carcinogenic 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. |
| Xylene (mix) (CAS 1330-20-7) | 3 Not classifiable as to carcinogenicity to humans. |

**NTP Report on Carcinogens**

| | |
|---|---|
| Cumene (CAS 98-82-8) | Reasonably Anticipated to be a Human Carcinogen. |

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not regulated.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects. The product contains a small amount of substance that is suspected of damaging fertility or the unborn child.

**Specific target organ toxicity - single exposure** May cause respiratory irritation. May cause drowsiness and dizziness.

**Specific target organ toxicity - repeated exposure** May cause damage to organs (Central nervous system, Liver, Kidney) through prolonged or repeated exposure.

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

**Chronic effects** May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

**Further information** No data available.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life.

| Components | | Species | Test Results |
|---|---|---|---|
| Carbon black (CAS 1333-86-4) | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Fish | LC50 | Leuciscus idus | >= 1000 mg/l, 96 Hours |
| Cumene (CAS 98-82-8) | | | |
| **Aquatic** | | | |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 2.7 mg/l, 96 hours |
| Ethylbenzene (CAS 100-41-4) | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 1.81 - 2.38 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 4.2 mg/l, 96 hours |

| Components | | Species | Test Results |
|---|---|---|---|
| *Chronic* | | | |
| Crustacea | EC50 | Ceriodaphnia dubia | 3.6 mg/l, 7 days |
| Toluene (CAS 108-88-3) | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Crustacea | EC50 | Daphnia magna | 11.5 mg/l, 48 hours |
| Fish | LC50 | Oncorhynchus kisutch | 5.5 mg/l, 96 hours |
| *Chronic* | | | |
| Crustacea | NOEC | Ceriodaphnia dubia | 0.74 mg/l, 7 days |
| Fish | NOEC | Oncorhynchus kisutch | 1.4 mg/l, 40 days |
| Xylene (mix) (CAS 1330-20-7) | | | |
| **Aquatic** | | | |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 2.6 mg/l, 96 hours |

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential**

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

| | |
|---|---|
| Ethylbenzene (CAS 100-41-4) | 3.15 |
| Toluene (CAS 108-88-3) | 2.73 |
| Xylene (mix) (CAS 1330-20-7) | 3.12 - 3.2 |

**Mobility in soil** No data available.

**Other adverse effects** The product contains volatile organic compounds which have a photochemical ozone creation potential.

## 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

**DOT**

**UN number** UN1210
**UN proper shipping name** Printing ink, flammable
**Transport hazard class(es)**
**Class** 3
**Subsidiary risk** -
**Label(s)** 3
**Packing group** III
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.
**Special provisions** B1, IB3, T2, TP1
**Packaging exceptions** 150
**Packaging non bulk** 173
**Packaging bulk** 242

**IATA**

**UN number** UN1210
**UN proper shipping name** Printing ink

**Transport hazard class(es)**

| | |
|---|---|
| **Class** | 3 |
| **Subsidiary risk** | - |
| **Label(s)** | 3 |
| **Packing group** | III |
| **Environmental hazards** | No |
| **ERG Code** | 3L |
| **Special precautions for user** | Read safety instructions, SDS and emergency procedures before handling. |

**IMDG**

| | |
|---|---|
| **UN number** | UN1210 |
| **UN proper shipping name** | PRINTING INK |
| **Transport hazard class(es)** | |
| **Class** | 3 |
| **Subsidiary risk** | - |
| **Label(s)** | 3 |
| **Packing group** | III |
| **Environmental hazards** | |
| **Marine pollutant** | No |
| **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 established. |

## 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)**

| | |
|---|---|
| Cumene (CAS 98-82-8) | Listed. |
| Ethylbenzene (CAS 100-41-4) | Listed. |
| Toluene (CAS 108-88-3) | Listed. |
| Xylene (mix) (CAS 1330-20-7) | Listed. |

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not regulated.

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

**SARA 302 Extremely hazardous substance**

Not listed.

| | |
|---|---|
| **SARA 311/312 Hazardous chemical** | Yes |
| **Classified hazard categories** | Flammable (gases, aerosols, liquids, or solids)<br>Acute toxicity (any route of exposure)<br>Skin corrosion or irritation<br>Serious eye damage or eye irritation<br>Carcinogenicity<br>Specific target organ toxicity (single or repeated exposure)<br>Aspiration hazard |

**SARA 313 (TRI reporting)**

| Chemical name | CAS number | % by wt. |
|---|---|---|
| Ethylbenzene | 100-41-4 | 5-20 |
| Xylene (mix) | 1330-20-7 | 40-80 |

**Other federal regulations**

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

Cumene (CAS 98-82-8)
Ethylbenzene (CAS 100-41-4)

Toluene (CAS 108-88-3)
Xylene (mix) (CAS 1330-20-7)

**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 |

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

| | |
|---|---|
| 1-Propanol (CAS 71-23-8) | Low priority |

**US state regulations**

**US. Massachusetts RTK - Substance List**

1-Methoxy-2-propanol (CAS 107-98-2)
1-Propanol (CAS 71-23-8)
Carbon black (CAS 1333-86-4)
Cumene (CAS 98-82-8)
Ethylbenzene (CAS 100-41-4)
Titanium dioxide (CAS 13463-67-7)
Toluene (CAS 108-88-3)
Xylene (mix) (CAS 1330-20-7)

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

1-Methoxy-2-propanol (CAS 107-98-2)
1-Propanol (CAS 71-23-8)
Carbon black (CAS 1333-86-4)
Cumene (CAS 98-82-8)
Ethylbenzene (CAS 100-41-4)
Titanium dioxide (CAS 13463-67-7)
Toluene (CAS 108-88-3)
Xylene (mix) (CAS 1330-20-7)

**US. Pennsylvania Worker and Community Right-to-Know Law**

1-Methoxy-2-propanol (CAS 107-98-2)
1-Propanol (CAS 71-23-8)
Carbon black (CAS 1333-86-4)
Cumene (CAS 98-82-8)
Ethylbenzene (CAS 100-41-4)
Titanium dioxide (CAS 13463-67-7)
Toluene (CAS 108-88-3)
Xylene (mix) (CAS 1330-20-7)

**US. Rhode Island RTK**

1-Methoxy-2-propanol (CAS 107-98-2)
1-Propanol (CAS 71-23-8)
Carbon black (CAS 1333-86-4)
Cumene (CAS 98-82-8)
Ethylbenzene (CAS 100-41-4)
Titanium dioxide (CAS 13463-67-7)
Toluene (CAS 108-88-3)
Xylene (mix) (CAS 1330-20-7)

**California Proposition 65**

**WARNING:** This product can expose you to chemicals including Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

| | |
|---|---|
| 1,4-Dioxane (CAS 123-91-1) | Listed: January 1, 1988 |
| Benzene (CAS 71-43-2) | Listed: February 27, 1987 |
| Carbon black (CAS 1333-86-4) | Listed: February 21, 2003 |
| Cumene (CAS 98-82-8) | Listed: April 6, 2010 |

Ethylbenzene (CAS 100-41-4) Listed: June 11, 2004
Naphthalene (CAS 91-20-3) Listed: April 19, 2002
Titanium dioxide (CAS 13463-67-7) Listed: September 2, 2011

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

Benzene (CAS 71-43-2) Listed: December 26, 1997
Toluene (CAS 108-88-3) Listed: January 1, 1991

**California Proposition 65 - CRT: Listed date/Male reproductive toxin**

Benzene (CAS 71-43-2) Listed: December 26, 1997

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

1-Methoxy-2-propanol (CAS 107-98-2)
Carbon black (CAS 1333-86-4)
Cumene (CAS 98-82-8)
Ethylbenzene (CAS 100-41-4)
Titanium dioxide (CAS 13463-67-7)
Toluene (CAS 108-88-3)
Xylene (mix) (CAS 1330-20-7)

**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) | Yes |
| 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) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| Taiwan | Taiwan Chemical Substance Inventory (TCSI) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates this product complies 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** 19-April-2018

**Revision date** -

**Version #** 01

**HMIS® ratings** Health: 2*
Flammability: 3
Physical hazard: 0

**NFPA ratings**


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