



SAFETY DATA SHEET

1. Identification

| | | |
|---|--|---------------------------|
| Product identifier | Black PDS Aerosol | |
| Other means of identification | | |
| Product Code | 11203-6 | |
| Recommended use | Not available. | |
| Manufacturer/Importer/Supplier/Distributor information | | |
| Company name | Plasti Dip International | |
| Address | 3920 Pheasant Ridge Drive Blaine, MN 55449 United States | |
| Telephone | General Assistance | 763-785-2156 |
| Website | Plastidip.com | |
| E-mail | Pdi@Plastidip.com | |
| Emergency phone number | Chemtrek/INTL | 800-424-9300/703-741-5970 |

2. Hazard(s) identification

| | | |
|------------------------------|--|---------------|
| Physical hazards | Flammable aerosols | Category 1 |
| | Gases under pressure | Liquefied gas |
| Health hazards | Acute toxicity, oral | Category 4 |
| | Skin corrosion/irritation | Category 2 |
| | Serious eye damage/eye irritation | Category 2B |
| | Sensitization, skin | Category 1 |
| | Carcinogenicity | Category 2 |
| | Reproductive toxicity | Category 2 |
| | Specific target organ toxicity, repeated exposure | 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 Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes eye irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life. 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

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| Response | If swallowed: Call a poison center/doctor if you feel unwell. 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. Rinse mouth. If skin irritation or rash 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. Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Hazard(s) not otherwise classified (HNOC) | None known. |
| Supplemental information | 86.39% of the mixture consists of component(s) of unknown acute oral toxicity. 76.45% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 76.45% 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 | % |
|--|--------------------------|------------|-----------|
| ALIPHATIC PETROLEUM DISTILLATES | | 64742-89-8 | 20 to <30 |
| PROPANE | | 74-98-6 | 20 to <30 |
| HEPTANE | | 142-82-5 | 10 to <20 |
| N-BUTANE | | 106-97-8 | 10 to <20 |
| XYLENE | | 1330-20-7 | 5 to <10 |
| ETHYLBENZENE | | 100-41-4 | 1 to <5 |
| METHYL ETHYL KETONE | | 78-93-3 | 1 to <5 |
| METHYL N-AMYL KETONE | | 110-43-0 | 1 to <5 |
| MINERAL SPIRITS | | 8052-41-3 | 1 to <5 |
| Bis (1,2,2,6,6-pentamethyl-4-piperidyl)s ebacate | | 41556-26-7 | 0.1 to <1 |
| CARBON BLACK | | 1333-86-4 | 0.1 to <1 |
| Other components below reportable levels | | | 10 to <20 |

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

4. First-aid measures

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| Inhalation | Move to fresh air. Call a physician if symptoms develop or persist. |
| Skin contact | Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. 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 | Not likely, due to the form of the product. Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell. |
| Most important symptoms/effects, acute and delayed | Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. 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. Wash contaminated clothing before reuse. |

5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed. |
| Special protective equipment and precautions for firefighters | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. |
| Fire fighting equipment/instructions | In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes. |
| General fire hazards | Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame. |

6. Accidental release measures

| | |
|--|---|
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Emergency personnel need self-contained breathing equipment. 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 | Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains. Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Scoop up used absorbent into drums or other appropriate container. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. 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

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|--------------------------------------|---|
| Precautions for safe handling | 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. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Do not breathe mist or vapor. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. 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. Use only in well-ventilated areas. 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

Level 3 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store in original tightly closed container. Store in a well-ventilated place. Keep out of the reach of children. 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 |
|-------------------------------------|------|----------------------------------|
| CARBON BLACK (CAS 1333-86-4) | PEL | 3.5 mg/m3 |
| ETHYLBENZENE (CAS 100-41-4) | PEL | 435 mg/m3 |
| HEPTANE (CAS 142-82-5) | PEL | 100 ppm 2000 mg/m3 |
| METHYL ETHYL KETONE (CAS 78-93-3) | PEL | 500 ppm 590 mg/m3 |
| METHYL N-AMYL KETONE (CAS 110-43-0) | PEL | 200 ppm 465 mg/m3 |
| MINERAL SPIRITS (CAS 8052-41-3) | PEL | 100 ppm 2900 mg/m3 |
| PROPANE (CAS 74-98-6) | PEL | 500 ppm 1800 mg/m3 |
| XYLENE (CAS 1330-20-7) | PEL | 1000 ppm 435 mg/m3 100 ppm |

US. ACGIH Threshold Limit Values

| Components | Type | Value | Form |
|-------------------------------------|------|----------|---------------------|
| CARBON BLACK (CAS 1333-86-4) | TWA | 3 mg/m3 | Inhalable fraction. |
| ETHYLBENZENE (CAS 100-41-4) | TWA | 20 ppm | |
| HEPTANE (CAS 142-82-5) | STEL | 500 ppm | |
| METHYL ETHYL KETONE (CAS 78-93-3) | TWA | 400 ppm | |
| METHYL N-AMYL KETONE (CAS 110-43-0) | STEL | 300 ppm | |
| MINERAL SPIRITS (CAS 8052-41-3) | TWA | 200 ppm | |
| N-BUTANE (CAS 106-97-8) | TWA | 50 ppm | |
| XYLENE (CAS 1330-20-7) | TWA | 100 ppm | |
| | STEL | 1000 ppm | |
| | STEL | 150 ppm | |
| | TWA | 100 ppm | |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|------------------------------|------|----------------------|
| CARBON BLACK (CAS 1333-86-4) | TWA | 0.1 mg/m3 |
| ETHYLBENZENE (CAS 100-41-4) | STEL | 545 mg/m3 |
| | TWA | 125 ppm 435 mg/m3 |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|--|---------|-----------------------|
| HEPTANE (CAS 142-82-5) | Ceiling | 100 ppm 1800 mg/m3 |
| | TWA | 440 ppm 350 mg/m3 |
| METHYL ETHYL KETONE (CAS 78-93-3) | STEL | 85 ppm 885 mg/m3 |
| | TWA | 300 ppm 590 mg/m3 |
| METHYL N-AMYL KETONE (CAS 110-43-0) | TWA | 200 ppm 465 mg/m3 |
| | Ceiling | 100 ppm 1800 mg/m3 |
| MINERAL SPIRITS (CAS 8052-41-3) | TWA | 350 mg/m3 |
| N-BUTANE (CAS 106-97-8) | TWA | 1900 mg/m3 |
| PROPANE (CAS 74-98-6) | TWA | 800 ppm 1800 mg/m3 |
| | | 1000 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 | * |
| METHYL ETHYL KETONE (CAS 78-93-3) | 2 mg/l | MEK | Urine | * |
| XYLENE (CAS 1330-20-7) | 1.5 g/g | Methylhippuric acids | Creatinine in urine | * |

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

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. Eye wash facilities and emergency shower must be available when handling this product.

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. Suitable gloves can be recommended by the glove supplier.

Other

Wear appropriate chemical resistant clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. 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. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical state

Liquid.

Form

Aerosol. Liquefied gas.

Color

Not available.

| | |
|---|--|
| Odor | Not available. |
| Odor threshold | Not available. |
| pH | Not available. |
| Melting point/freezing point | -305.68 °F (-187.6 °C) estimated |
| Initial boiling point and boiling range | -43.78 °F (-42.1 °C) estimated |
| Flash point | -156.0 °F (-104.4 °C) estimated |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | 1.9 % estimated |
| Flammability limit - upper (%) | 9.5 % estimated |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | 4644.95 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 | 550 °F (287.78 °C) estimated |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Density | 5.55 lbs/gal |
| Explosive properties | Not explosive. |
| Flammability class | Flammable IA estimated |
| Heat of combustion (NFPA 30B) | 36.09 kJ/g estimated |
| Oxidizing properties | Not oxidizing. |
| Percent volatile | 88.64 |
| Specific gravity | 0.67 |
| VOC | 4.92 lbs/gal Regulatory 589.55 g/l Regulatory 4.92 lbs/gal Material 589.55 g/l Material |

10. Stability and reactivity

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|---|---|
| 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 | Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| Incompatible materials | Strong acids. Strong oxidizing agents. Nitrates. Halogens. Fluorine. Chlorine. |
| Hazardous decomposition products | No hazardous decomposition products are known. |

11. Toxicological information

Information on likely routes of exposure

| | |
|-------------------|--|
| Inhalation | May cause damage to organs through prolonged or repeated exposure by inhalation. |
|-------------------|--|

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes eye irritation.

Ingestion Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Harmful if swallowed. May cause an allergic skin reaction.

| Components | Species | Test Results |
|-------------------------------------|----------------|-----------------------------|
| CARBON BLACK (CAS 1333-86-4) | | |
| Acute | | |
| Oral | | |
| LD50 | Rat | > 8000 mg/kg |
| ETHYLBENZENE (CAS 100-41-4) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | 17800 mg/kg |
| Oral | | |
| LD50 | Rat | 3500 mg/kg |
| HEPTANE (CAS 142-82-5) | | |
| Acute | | |
| Inhalation | | |
| LC50 | Rat | 103 mg/l, 4 Hours |
| LD50 | Mouse | 75 mg/l, 2 Hours |
| METHYL ETHYL KETONE (CAS 78-93-3) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 8000 mg/kg |
| Inhalation | | |
| LC50 | Mouse | 11000 ppm, 45 Minutes |
| | Rat | 11700 ppm, 4 Hours |
| Oral | | |
| LD50 | Mouse | 670 mg/kg |
| | Rat | 2300 - 3500 mg/kg |
| METHYL N-AMYL KETONE (CAS 110-43-0) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | 12600 mg/kg |
| Oral | | |
| LD50 | Mouse | 730 mg/kg |
| | Rat | 1.67 g/kg |
| N-BUTANE (CAS 106-97-8) | | |
| Acute | | |
| Inhalation | | |
| LC50 | Mouse | 680 mg/l, 2 Hours |
| | Rat | 658 mg/l, 4 Hours |
| PROPANE (CAS 74-98-6) | | |
| Acute | | |
| Inhalation | | |
| LC50 | Rat | > 1442.847 mg/l, 15 Minutes |

| Components | Species | Test Results |
|------------------------|---------|--------------------|
| XYLENE (CAS 1330-20-7) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 43 g/kg |
| Inhalation | | |
| LC50 | Mouse | 3907 mg/l, 6 Hours |
| | Rat | 6350 mg/l, 4 Hours |
| Oral | | |
| LD50 | Mouse | 1590 mg/kg |
| | Rat | 3523 - 8600 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 eye irritation. |
| Respiratory or skin sensitization | |
| Respiratory sensitization | Not a respiratory sensitizer. |
| Skin sensitization | May cause an allergic skin reaction. |
| 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. |
| ETHYLBENZENE (CAS 100-41-4) | 2B Possibly carcinogenic to humans. |
| MINERAL SPIRITS (CAS 8052-41-3) | 3 Not classifiable as to carcinogenicity to humans. |
| XYLENE (CAS 1330-20-7) | 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 | |
| Not listed. | |
| Reproductive toxicity | Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. 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 | Not an aspiration hazard. |
| Chronic effects | Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. |

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

| Components | Species | Test Results |
|-----------------------------|---------|--|
| 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 |
| HEPTANE (CAS 142-82-5) | | |
| Aquatic | | |
| Fish | LC50 | Mozambique tilapia (Tilapia mossambica) 375 mg/l, 96 hours |

| Components | Species | | Test Results |
|-------------------------------------|---------|---|------------------------------|
| METHYL ETHYL KETONE (CAS 78-93-3) | | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 4025 - 6440 mg/l, 48 hours |
| Fish | LC50 | Sheepshead minnow (Cyprinodon variegatus) | > 400 mg/l, 96 hours |
| METHYL N-AMYL KETONE (CAS 110-43-0) | | | |
| Aquatic | | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 126 - 137 mg/l, 96 hours |
| XYLENE (CAS 1330-20-7) | | | |
| Aquatic | | | |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | 7.711 - 9.591 mg/l, 96 hours |

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

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

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

| | |
|----------------------|-------------|
| ETHYLBENZENE | 3.15 |
| HEPTANE | 4.66 |
| METHYL ETHYL KETONE | 0.29 |
| METHYL N-AMYL KETONE | 1.98 |
| MINERAL SPIRITS | 3.16 - 7.15 |
| N-BUTANE | 2.89 |
| PROPANE | 2.36 |
| XYLENE | 3.12 - 3.2 |

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. Contents under pressure. Do not puncture, incinerate or crush. 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. Do not re-use empty containers.

14. Transport information

DOT

| | |
|-------------------------------------|---|
| UN number | UN1950 |
| UN proper shipping name | UN1950, Aerosols, Flammable |
| Transport hazard class(es) | |
| Class | 2.1 |
| Subsidiary risk | - |
| Label(s) | 2.1 |
| Packing group | Not applicable. |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Special provisions | N82 |
| Packaging exceptions | 306 |
| Packaging non bulk | None |
| Packaging bulk | None |

IATA

| | |
|-------------------------------------|---|
| UN number | UN1950 |
| UN proper shipping name | Aerosols, Flammable |
| Transport hazard class(es) | |
| Class | 2.1 |
| Subsidiary risk | - |
| Label(s) | 2.1 |
| Packing group | Not applicable. |
| Environmental hazards | No. |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Other information | |
| Passenger and cargo aircraft | Allowed. |
| Cargo aircraft only | Allowed. |

IMDG

| | |
|-------------------------------------|---|
| UN number | UN1950 |
| UN proper shipping name | Aerosols, Flammable |
| Transport hazard class(es) | |
| Class | 2.1 |
| Subsidiary risk | - |
| Label(s) | 2.1 |
| Packing group | Not applicable. |
| Environmental hazards | |
| Marine pollutant | No. |
| EmS | Not available. |
| 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.

DOT**IATA; IMDG****General information**

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

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)

| | |
|-----------------------------------|---------|
| ETHYLBENZENE (CAS 100-41-4) | Listed. |
| HEPTANE (CAS 142-82-5) | Listed. |
| METHYL ETHYL KETONE (CAS 78-93-3) | Listed. |
| N-BUTANE (CAS 106-97-8) | Listed. |
| PROPANE (CAS 74-98-6) | Listed. |
| XYLENE (CAS 1330-20-7) | 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 - Yes |
| | 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. |
|---------------|------------|----------|
| XYLENE | 1330-20-7 | 5 to <10 |
| ETHYLBENZENE | 100-41-4 | 1 to <5 |

Other federal regulations

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

ETHYLBENZENE (CAS 100-41-4)
XYLENE (CAS 1330-20-7)

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

N-BUTANE (CAS 106-97-8)
PROPANE (CAS 74-98-6)

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

METHYL ETHYL KETONE (CAS 78-93-3) 6714

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

METHYL ETHYL KETONE (CAS 78-93-3) 35 %WV

DEA Exempt Chemical Mixtures Code Number

METHYL ETHYL KETONE (CAS 78-93-3) 6714

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

METHYL ETHYL KETONE (CAS 78-93-3) Low priority
METHYL N-AMYL KETONE (CAS 110-43-0) Other Flavoring Substances with OSHA PEL's

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

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

ALIPHATIC PETROLEUM DISTILLATES (CAS 64742-89-8)
Bis (1,2,2,6,6-pentamethyl-4-piperidyl)sebacate (CAS 41556-26-7)
CARBON BLACK (CAS 1333-86-4)
ETHYLBENZENE (CAS 100-41-4)

METHYL ETHYL KETONE (CAS 78-93-3)
MINERAL SPIRITS (CAS 8052-41-3)
N-BUTANE (CAS 106-97-8)
XYLENE (CAS 1330-20-7)

US. Massachusetts RTK - Substance List

CARBON BLACK (CAS 1333-86-4)
ETHYLBENZENE (CAS 100-41-4)
HEPTANE (CAS 142-82-5)
METHYL ETHYL KETONE (CAS 78-93-3)
METHYL N-AMYL KETONE (CAS 110-43-0)
MINERAL SPIRITS (CAS 8052-41-3)
N-BUTANE (CAS 106-97-8)
PROPANE (CAS 74-98-6)
XYLENE (CAS 1330-20-7)

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

CARBON BLACK (CAS 1333-86-4)
ETHYLBENZENE (CAS 100-41-4)
HEPTANE (CAS 142-82-5)
METHYL ETHYL KETONE (CAS 78-93-3)
METHYL N-AMYL KETONE (CAS 110-43-0)
N-BUTANE (CAS 106-97-8)
PROPANE (CAS 74-98-6)
XYLENE (CAS 1330-20-7)

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

CARBON BLACK (CAS 1333-86-4)
ETHYLBENZENE (CAS 100-41-4)
HEPTANE (CAS 142-82-5)
METHYL ETHYL KETONE (CAS 78-93-3)
METHYL N-AMYL KETONE (CAS 110-43-0)
MINERAL SPIRITS (CAS 8052-41-3)
N-BUTANE (CAS 106-97-8)
PROPANE (CAS 74-98-6)
XYLENE (CAS 1330-20-7)

US. Rhode Island RTK

ETHYLBENZENE (CAS 100-41-4)
METHYL ETHYL KETONE (CAS 78-93-3)
N-BUTANE (CAS 106-97-8)
PROPANE (CAS 74-98-6)
XYLENE (CAS 1330-20-7)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

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

| | |
|------------------------------|---------------------------|
| 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 |

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) | No |
| 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) | No |

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*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 | 06-02-2015 |
| Revision date | 03-09-2018 |
| Version # | 07 |
| HMIS® ratings | Health: 2* Flammability: 4 Physical hazard: 0 |
| NFPA ratings | Health: 2 Flammability: 4 Instability: 0 |
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| Revision information | This document has undergone significant changes and should be reviewed in its entirety. |