# SAFETY DATA SHEET

## SECTION 1. IDENTIFICATION

**Product identifier used on the label**

: **XTC Primer**

**Product Code(s)** : 65XXX

**Recommended use of the chemical and restrictions on use**

: Paint for wood burning stoves, hearth accessories, BBQ pits and smokers.
Use pattern: professional use; Consumers
Recommended restrictions: Do not apply to cooking surfaces.

**Chemical family** : Mixture of: Aromatic Hydrocarbon ; Pigment; Alcohol

**Name, address, and telephone number of the supplier:**

**Advanced Protective Technologies LLC**

1101 Cumberland Xing #180

Valparaiso, IN, U.S.A. 46383
Email: support@kbs-coatings.com

**Name, address, and telephone number of the manufacturer:**

Refer to supplier

Supplier's Telephone # : 219-263-0073

**24 Hr. Emergency Tel #** : INFOTRAC: US & Canada: 1-800-535-5053 | International 1-352-323-3500

## SECTION 2. HAZARDS IDENTIFICATION

**Classification of the chemical**

Black liquid. Aromatic solvent odour.

Most important hazards: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012).
Hazardous classification:
- Flammable liquid - Category 2
- Skin irritation - Category 2
- Carcinogen - Category 1
- Reproductive toxicant - Category 2
- Specific target organ toxicity - single exposure - Category 3
- Specific target organ toxicity - repeated exposure - Category 2

WHMIS information: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). WHMIS classification:
- Class B2 (Flammable Liquids);
- Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material);
- Class D2B (Materials Causing Other Toxic Effects, Toxic Material).

**Label elements**

*The following label information is applicable only to the United States according to OSHA Regulations (29 CFR 1910.1200) (Hazcom 2012):*

*Signal Word*

DANGER!

*Hazard statement(s)*

Highly flammable liquid and vapor. .
Causes skin irritation.
May cause respiratory irritation.
May cause drowsiness and dizziness.
May cause cancer.
Suspected of damaging the unborn child.
May cause damage to the nervous system through prolonged or repeated exposure.

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*Precautionary statement(s)*

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, sparks and open flame. - No smoking.
Keep container tightly closed.
Ground/Bond container and receiving equipment.
Use explosion-proof ventilating equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe vapors.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/clothing and eye/face protection.
In case of fire: Use carbon dioxide, dry sand, dry chemical or alcohol-resistant foam for extinction.
IF exposed or concerned: Get medical attention/advice.
IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash before re-use.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
Dispose of contents/container in accordance with local regulation.

*Hazard pictogram(s)*

*The following label information is applicable only to Canada according to the Canadian Controlled Products Regulations (CPR/WHMIS):*

DANGER! Highly flammable liquid and vapour Vapours may cause flash fire. May be harmful if inhaled. May cause respiratory irritation. May cause nausea, vomiting, headache and other central nervous system effects. Causes skin irritation. May cause mild eye irritation. Prolonged exposure by inhalation of particles can cause serious lung damage, including silicosis. Possible birth defect hazard - contains material that may cause birth defects, based on animal data. Possible cancer hazard - contains material which may cause cancer.
Precautions Use in a well-ventilated area. Wear suitable protective equipment during handling. Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and open flame. - No smoking. Ground all equipment during handling. Avoid contact with strong oxidizing agents. Wash thoroughly after handling. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container. Do not use pressure to empty drums. Store in a cool, dry, well ventilated area, away from heat and ignition sources.
FIRST AID: If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing stopped, begin artificial respiration. Get medical attention. For skin contact, wash with soap and water while removing contaminated clothing. If irritation persists, seek prompt medical attention. For eye contact, flush with running water for at least 15 minutes. If irritation persists, seek prompt medical attention. If ingested, do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.
Refer To Material Safety Data Sheet for further information.

WHMIS symbols required on a supplier label:

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**Other hazards**

Other hazards which do not result in classification:
Burning produces obnoxious and toxic fumes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause mild eye irritation. Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights. .

Environmental precautions:
Toxic to aquatic life with long lasting effects. Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS # | Concentration |
|---|---|---|
| **Xylene** | 1330-20-7 | **28.29%** |
| **Toluene** | 108-88-3 | **13.44%** |
| **Solvent naphtha (petroleum), light aromatic** | 64742-95-6 | **9.58%** |
| **Ethylbenzene** | 100-41-4 | **5.95%** |
| **1,2,4-Trimethylbenzene** | 95-63-6 | **4.72%** |
| **n-Butyl alcohol** | 71-36-3 | **2.76%** |
| **Iron manganese oxide ((Fe,Mn)2O3)** | 75864-23-2 | **2.26%** |
| **Crystalline silica** | 14808-60-7 | **0.27%** |

## SECTION 4. FIRST-AID MEASURES

**Description of first aid measures**

*Ingestion* : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

*Inhalation* : IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTRE or doctor/physician if you feel unwell.

*Skin contact* : IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash before re-use.

*Eye contact* : For eye contact, flush with running water for at least 15 minutes. If eye irritation persists, get medical advice/attention.

**Most important symptoms and effects, both acute and delayed**

: Causes skin irritation. Contact may cause redness, swelling and a painful sensation.
May cause respiratory irritation. May cause coughing and breathing difficulties. May cause drowsiness and dizziness.
May cause cancer.
Suspected of damaging the unborn child.
May cause damage to the nervous system through prolonged or repeated exposure.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Mild eye irritant Symptoms may include stinging and tearing. .
Prolonged overexposure may cause liver and kidney effects.

**Indication of any immediate medical attention and special treatment needed**

: Treat symptomatically.

## SECTION 5. FIRE-FIGHTING MEASURES

**Extinguishing media**

*Suitable extinguishing media*

: Carbon dioxide (CO2); Dry chemical; Alcohol-resistant foam; water fog.

*Unsuitable extinguishing media*

: Do not use a solid water stream as it may scatter and spread fire.

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**Special hazards arising from the substance or mixture / Conditions of flammability**

: Highly flammable liquid and vapour. Will ignite when exposed to heat, flame and other sources of ignition. Vapours are heavier than air and may spread along floors. The pressure in sealed containers can increase under the influence of heat.

**Flammability classification (OSHA 29 CFR 1910.106)**

: Flammable liquid - Category 2

**Explosion Data: Sensitivity to Mechanical Impact / Static Discharge:**

: Not expected to be sensitive to mechanical impact. May be sensitive to static discharge. Vapours in the flammable range may be ignited by a static discharge of sufficient energy.

**Hazardous combustion products**

: Carbon oxides; Hydrocarbons; Aldehydes; Polycyclic aromatic hydrocarbons; Other unidentified organic compounds.

**Special protective equipment and precautions for firefighters**

*Protective equipment for fire-fighters*

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

*Special fire-fighting procedures*

: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

: All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions** : Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

**Methods and material for containment and cleaning up**

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools. Soak up with inert absorbent material. Do not use combustible absorbents, such as sawdust. Pick up and transfer to properly labelled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.

**Special spill response procedures**

: In case of a transportation accident, in the United States contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887. If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).
US CERCLA Reportable quantity (RQ): Xylene (100 lbs / 45.4 kg); Toluene (1000 lbs / 454 kg); Ethylbenzene (1000 lbs / 454 kg); n-Butyl alcohol (5000 lbs / 2270 kg)

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## SECTION 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.
Wear suitable protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and open flame. - No smoking. Ground/Bond container and receiving equipment. Take precautionary measures against static discharges. Use explosion-proof ventilating equipment. Keep container tightly closed. Do not eat, drink or smoke when using this product. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Wash thoroughly after handling.

**Conditions for safe storage** : Store in cool/well-ventilated place. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area.

**Incompatible materials** : Strong oxidizing agents; Strong acids; Alkali metals; Halogenated compounds; Strong bases

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limits:**

| Chemical Name | ACGIH TLV | | OSHA PEL | |
|---|---|---|---|---|
| | TWA | STEL | PEL | STEL |
| Xylene | 100 ppm | 150 ppm | 100 ppm | N/Av |
| Toluene | 20 ppm | N/Av | 200 ppm | 300 ppm (Ceiling) |
| Solvent naphtha (petroleum), light aromatic | N/Av | N/Av | N/Av | N/Av |
| Ethylbenzene | 20 ppm | N/Av | 100 ppm | N/Av |
| 1,2,4-Trimethylbenzene | 25 ppm (trimethylbenzene isomers) | N/Av | 25 ppm (trimethylbenzene isomers) (final rule limit) | N/Av |
| n-Butyl alcohol | 20 ppm | N/Av | 100 ppm | N/Av |
| Iron manganese oxide ((Fe,Mn)2O3) | N/Av | N/Av | N/Av | N/Av |
| Crystalline silica | 0.025 mg/m³ (respirable fraction) | N/Av | 0.1 mg/m³ (final rule limit) | N/Av |

**Exposure controls**

**Ventilation and engineering measures**

: Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof equipment. In case of insufficient ventilation wear suitable respiratory equipment.

**Respiratory protection** : If airbourne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.

**Skin protection** : Wear protective gloves/clothing. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

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| | | |
|---|---|---|
| **Eye / face protection** | : | Wear eye/face protection. Wear as appropriate: Tightly fitting safety goggles; Safety glasses with side-shields. |
| **Other protective equipment** | : | Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards. |
| **General hygiene considerations** | : | Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice. |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|---|---|
| **Appearance** | : | Black liquid. |
| **Odour** | : | Aromatic solvent odour. |
| **Odour threshold** | : | No information available. |
| **pH** | : | No information available. |
| **Melting/Freezing point** | : | No information available. |
| **Initial boiling point and boiling range** | : | 110 - 145°C (230 - 293°F) (based on ingredients) |
| **Flash point** | : | 4 - 35°C (39.2 - 95°F) (based on ingredients) |
| **Flashpoint (Method)** | : | closed cup |
| **Evaporation rate (BuAe = 1)** | : | 0.0035 times slower |
| **Flammability (solid, gas)** | : | Not applicable. |
| **Lower flammable limit (% by vol.)** | : | 1.0% (Solvent mixture) |
| **Upper flammable limit (% by vol.)** | : | 11.2% (Solvent mixture) |
| **Oxidizing properties** | : | None known. |
| **Explosive properties** | : | Not explosive |
| **Vapour pressure** | : | No information available. |
| **Vapour density** | : | > 1 (Air = 1) |
| **Relative density / Specific gravity** | : | 1.05793 |
| **Solubility in water** | : | Negligible |
| **Other solubility(ies)** | : | No information available. |
| **Partition coefficient: n-octanol/water or Coefficient of water/oil distribution** | : | No information available. |
| **Auto-ignition temperature** | : | No information available. |
| **Decomposition temperature** | : | No information available. |
| **Viscosity** | : | 300 - 400 cP (284 - 378 cSt) |
| **Volatiles (% by weight)** | : | 65.1% |
| **Volatile organic Compounds (VOC's)** | : | 690 g/L (5.76 lbs/gal) |
| **Absolute pressure of container** | : | Not applicable. |
| **Flame projection length** | : | Not applicable. |
| **Other physical/chemical comments** | : | No additional information. |

## SECTION 10. STABILITY AND REACTIVITY

| | | |
|---|---|---|
| **Reactivity** | : | Not normally reactive. |
| **Chemical stability** | : | Stable under normal conditions. |

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**Possibility of hazardous reactions**
: Hazardous polymerization does not occur.

**Conditions to avoid** : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

**Incompatible materials** : Strong oxidizing agents; Strong acids; Alkali metals; Halogenated compounds; Strong bases

**Hazardous decomposition products**
: None known, refer to hazardous combustion products in Section 5.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure:

**Routes of entry inhalation** : YES

**Routes of entry skin & eye** : YES

**Routes of entry Ingestion** : YES

**Routes of exposure skin absorption**
: YES

### Potential Health Effects:

**Signs and symptoms of short-term (acute) exposure**

*Sign and symptoms Inhalation*
: May cause respiratory irritation. May cause headache, nausea, dizziness and other symptoms of central nervous system depression.

*Sign and symptoms ingestion*
: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

*Sign and symptoms skin* : Causes moderate skin irritation. Can be absorbed through skin.

*Sign and symptoms eyes* : May cause mild eye irritation.

**Potential Chronic Health Effects**
: Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights.

**Mutagenicity** : Contains no ingredient above reportable levels that is known to cause mutations in reproductive (germ) and/or non-reproductive cells (somatic).

**Carcinogenicity** : This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012). Classification:
Carcinogen - Category 1. May cause cancer.

Contains Ethylbenzene. Ethylbenzene is classifed as carcinogenic by IARC (Group 2B) and ACGIH (Category A3).
Contains crystalline silica. Crystalline silica is classified as carcinogenic by IARC (Group 1), the ACGIH (Category A2) and the NTP (Group 1 - Known human carcinogen).

**Reproductive effects & Teratogenicity**
: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012). Classification:
Reproductive toxicant - Category 2. Suspected of damaging the unborn child.
Contains Toluene. Toluene may cause fetotoxic effects at doses which are not maternally toxic, based on animal data.
This product contains Xylene. Xylene may cause fetotoxic effects (e.g. reduced fetal weight, delayed ossification, behavioral effects) at doses which are not maternally toxic, based on animal data.

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**Senitization to material** : No data available to indicate product or components may be respiratory sensitizers.
No data available to indicate product or components may be skin sensitizers.

**Specific target organ effects** : This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012). Classification:
Specific target organ toxicity - single exposure - Category 3. May cause respiratory irritation. May cause drowsiness and dizziness.

Specific target organ toxicity - repeated exposure - Category 2. May cause damage to the nervous system through prolonged or repeated exposure. Chronic exposure damages the brain and the central nervous system. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing. Contains: Toluene.

**Irritancy** : Moderate skin irritant. Mild eye irritant.

**Medical conditions aggravated by overexposure**

: Pre-existing skin, eye, respiratory and central nervous system disorders.

**Synergistic materials** : No information available.

**Toxicological data** : The calculated ATE values for this mixture are:
ATE oral = 6741 mg/kg
ATE dermal = 123,261 mg/kg
ATE inhalation (vapors) = 36.2 mg/L/4 hours

See the following table for individual ingredient acute toxicity data.

| Chemical name | $LC_{50}$(4hr) inh, rat | $LD_{50}$ (Oral, rat) | $LD_{50}$ (Rabbit, dermal) |
|---|---|---|---|
| Xylene | 6350 ppm (27.6 mg/L) | 3523 mg/kg | 12,180 mg/kg |
| Toluene | 7585 ppm (28.1 mg/L) | 5580 mg/kg | 12,125 mg/kg |
| Solvent naphtha (petroleum), light aromatic | > 17.7 mg/L (vapor) | 8400 mg/kg | > 3160 mg/kg |
| Ethylbenzene | 4000 ppm (17.4 mg/L) | 3500 mg/kg | 15 380 mg/kg |
| 1,2,4-Trimethylbenzene | 18 mg/L | 5000 mg/kg | > 3160 mg/kg |
| n-Butyl alcohol | 8000 ppm (24.3 mg/L) | 790 - 4360 mg/kg | 3402 mg/kg |
| Iron manganese oxide ((Fe,Mn)2O3) | N/Av | N/Av | N/Av |
| Crystalline silica | N/Av | N/Av | N/Av |

**Other important toxicological hazards**

: None reported by the manufacturer.

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** : Toxic to aquatic life with long lasting effects. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. No data is available on the product itself. The product contains the following substances which are hazardous for the environment: Xylene; Toluene; Solvent naphtha (petroleum), light aromatic; 1,2,4-Trimethylbenzene.

See the following tables for individual ingredient ecotoxicity data.

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***Ecotoxicity data:***

| Ingredients | CAS No | Toxicity to Fish | | |
|---|---|---|---|---|
| | | LC50 / 96h | NOEC / 21 day | M Factor |
| Xylene | 1330-20-7 | 8.2 mg/L (Rainbow trout) (ECOTOX) | N/Av | None. |
| Toluene | 108-88-3 | 5.4 mg/L (pink salmon) (OECD) | 1.4 - 4 mg/L | None. |
| Solvent naphtha (petroleum), light aromatic | 64742-95-6 | 9.22 mg/L (Rainbow trout) (IUCLID) | N/Av | None. |
| Ethylbenzene | 100-41-4 | 4.2 mg/L (Rainbow trout) (OECD) | 1.13 mg/L/30 days Calculation method (ECHA) | None. |
| 1,2,4-Trimethylbenzene | 95-63-6 | 7.72 mg/L (Fathead minnow) (ECHA) | N/Av | None. |
| n-Butyl alcohol | 71-36-3 | 1376 mg/L (Fathead minnow) (ECHA) | N/Av | None. |
| Iron manganese oxide ((Fe,Mn)2O3) | 75864-23-2 | N/Av | N/Av | None. |
| Crystalline silica | 14808-60-7 | N/Av | N/Av | None. |

| Ingredients | CAS No | Toxicity to Daphnia | | |
|---|---|---|---|---|
| | | EC50 / 48h | NOEC / 21 day | M Factor |
| Xylene | 1330-20-7 | 3.2 - 9.56 mg/L (Daphnia magna) (OECD) | 1.57 mg/L (ECHA) | None. |
| Toluene | 108-88-3 | 11.5 mg/L (Daphnia magna) (OECD) | 0.53 - 1 mg/L | None. |
| Solvent naphtha (petroleum), light aromatic | 64742-95-6 | 6.16 mg/L (Daphnia magna) (IUCLID) | N/Av | None. |
| Ethylbenzene | 100-41-4 | 1.81 mg/L (Daphnia magna) (OECD) | N/Av | None. |
| 1,2,4-Trimethylbenzene | 95-63-6 | 3.6 mg/L (Daphnia magna) (ECHA) | N/Av | None. |
| n-Butyl alcohol | 71-36-3 | 1328 mg/L (Daphnia magna) (ECHA) | 4.1 mg/L | None. |
| Iron manganese oxide ((Fe,Mn)2O3) | 75864-23-2 | N/Av | N/Av | None. |
| Crystalline silica | 14808-60-7 | N/Av | N/Av | None. |

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| Ingredients | CAS No | Toxicity to Algae | | |
|---|---|---|---|---|
| | | EC50 / 96h or 72h | NOEC / 96h or 72h | M Factor |
| Xylene | 1330-20-7 | 3.2 - 4.9 mg/L/72hr (Green algae) (OECD) | N/Av | None. |
| Toluene | 108-88-3 | N/Av | 10 mg/L/72hr (Green algae) (OECD) | None. |
| Solvent naphtha (petroleum), light aromatic | 64742-95-6 | N/Av | N/Av | N/Av |
| Ethylbenzene | 100-41-4 | 3.6 mg/L/96hr (Green algae) (OECD) | 3.4 mg/L/96hr (ECHA) | None. |
| 1,2,4-Trimethylbenzene | 95-63-6 | 2.356 mg/L/96hr (Calculation method) (ECHA) | N/Av | N/Av |
| n-Butyl alcohol | 71-36-3 | 225 mg/L/96hr (Green algae) (ECHA) | 129 mg/L/96hr | None. |
| Iron manganese oxide ((Fe,Mn)2O3) | 75864-23-2 | N/Av | N/Av | None. |
| Crystalline silica | 14808-60-7 | N/Av | N/Av | None. |

**Persistence and degradability**

: The product itself has not been tested.
The following ingredients are considered to be readily biodegradable: Toluene; n-Butyl alcohol
Contains the following chemicals which are considered to be inherently biodegradable: Xylene; Solvent naphtha (petroleum), light aromatic; Ethylbenzene
Contains the following chemicals which are not readily biodegradable: 1,2,4-Trimethylbenzene; Crystalline silica, quartz

**Bioaccumulation potential** : The product itself has not been tested. See the following data for ingredient information.
Partition coefficient (n-octanol/water):
- Xylene: 3.12 - 3.2
- Toluene: 2.65
- Solvent naphtha (petroleum), light aromatic: 2.1 - 6
- Ethylbenzene: 3.15
- 1,2,4-Trimethylbenzene: 3.78
- n-Butyl alcohol: 0.88

Bioconcentration factor (BCF)
- Xylene: 50 - 58
- Toluene: 90
- Solvent naphtha (petroleum), light aromatic: 10 - 2500
- Ethylbenzene: 1.1 - 1.5
- 1,2,4-Trimethylbenzene: 31 - 275
- n-Butyl alcohol: 3

**Mobility in soil** : The product itself has not been tested.

**Other Adverse Environmental effects**

: None known.

## SECTION 13. DISPOSAL CONSIDERATIONS

**Handling for Disposal** : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.

**Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations.

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**RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

## SECTION 14. TRANSPORTATION INFORMATION

| Regulatory Information | UN Number | UN proper shipping name | Transport hazard class(es) | Packing Group | Label |
|---|---|---|---|---|---|
| 49CFR/DOT | UN1263 | Paint | 3 | II | |
| **49CFR/DOT Additional information** | May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass.<br>Refer to 49 CFR 173.150(b) and Special Provision 149. | | | | |
| TDG | UN1263 | PAINT | 3 | II | |
| **TDG Additional information** | May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass. | | | | |

**Special precautions for user** : Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame. - No smoking.

**Environmental hazards** : This mixture meets the criteria for an environmentally hazardous material according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

: This information is not available.

## SECTION 15 - REGULATORY INFORMATION

**US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:

| Ingredients | CAS # | TSCA Inventory | CERCLA Reportable Quantity(RQ) (40 CFR 117.302): | SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355: | SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical | |
|---|---|---|---|---|---|---|
| | | | | | Toxic Chemical | de minimus Concentration |
| Xylene | 1330-20-7 | Yes | 100 lb/ 45.4 kg | None. | Yes | 1% |
| Toluene | 108-88-3 | Yes | 1000 lb/ 454 kg | None. | Yes | 1% |
| Solvent naphtha (petroleum), light aromatic | 64742-95-6 | Yes | None. | None. | No | N/Ap |
| Ethylbenzene | 100-41-4 | Yes | 1000 lb/ 454 kg | None. | Yes | 0.1% |
| 1,2,4-Trimethylbenzene | 95-63-6 | Yes | None. | None. | Yes | 1% |
| n-Butyl alcohol | 71-36-3 | Yes | 5000 lb/ 2270 kg | None. | Yes | 1% |
| Iron manganese oxide ((Fe,Mn)2O3) | 75864-23-2 | Yes | None. | None. | No | N/Ap |
| Crystalline silica | 14808-60-7 | Yes | None. | None. | No | N/Ap |

# SAFETY DATA SHEET

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Immediate (Acute) health hazard; Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

**US State Right to Know Laws:**

The following chemicals are specifically listed by individual States:

| Ingredients | CAS # | California Proposition 65 | | State "Right to Know" Lists | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Listed | Type of Toxicity | CA | MA | MN | NJ | PA | RI |
| Xylene | 1330-20-7 | No | N/Ap | Yes | Yes | Yes | Yes | Yes | Yes |
| Toluene | 108-88-3 | No | Developmental | Yes | Yes | Yes | Yes | Yes | Yes |
| Solvent naphtha (petroleum), light aromatic | 64742-95-6 | No | N/Ap | No | No | No | No | No | No |
| Ethylbenzene | 100-41-4 | Yes | Cancer | Yes | Yes | Yes | Yes | Yes | Yes |
| 1,2,4-Trimethylbenzene | 95-63-6 | No | N/Ap | No | Yes | Yes | Yes | Yes | No |
| n-Butyl alcohol | 71-36-3 | No | N/Ap | Yes | Yes | Yes | Yes | Yes | Yes |
| Iron manganese oxide ((Fe,Mn)2O3) | 75864-23-2 | No | N/Ap | No | No | No | No | No | No |
| Crystalline silica | 14808-60-7 | Yes | Cancer | No | Yes | Yes | Yes | Yes | Yes |

**Canadian Information:**

Canadian Environmental Protection Act (CEPA): The following ingredient(s) is listed on the NDSL: Iron manganese oxide. All other ingredients are listed on the Domestic Substances List.

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this Material Safety Data Sheet contains all the information required by the CPR.**

**International Information:**

Components listed below are present on the following International Inventory list:

# SAFETY DATA SHEET

| Ingredients | CAS # | European EINECs | Australia AICS | Philippines PICCS | Japan ENCS | Korea KECI/KECL | China IECSC | NewZealand IOC |
|---|---|---|---|---|---|---|---|---|
| Xylene | 1330-20-7 | 215-535-7 | Present | Present | (3)-60; (3)-3 | KE-35427 | Present (08052) | HSR000983 |
| Toluene | 108-88-3 | 203-625-9 | Present | Present | (3)-2 | KE-33936 | Present (16691) | HSR001227 |
| Solvent naphtha (petroleum), light aromatic | 64742-95-6 | 265-199-0 | Present | Present | (9)-1698 | KE-31662 | Present (27716) | May be used as a single component chemical under an appropriate group standard |
| Ethylbenzene | 100-41-4 | 202-849-4 | Present | Present | (3)-60; (3)-28 | KE-13532 | Present (38114) | HSR001151 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 202-436-9 | Present | Present | (3)-7; (3)-3427 | KE-34410 | Present (28811) | HSR001382 |
| n-Butyl alcohol | 71-36-3 | 200-751-6 | Present | Present | (2)-3049 | KE-03867 | Present (41348) | HSR001096 |
| Iron manganese oxide ((Fe,Mn)2O3) | 75864-23-2 | None assigned. | Not listed | Not listed | (1)-357, (1)-475 | Not listed | Not listed | May be used as a component |
| Crystalline silica | 14808-60-7 | 238-878-4 | Present | Present | (1)-548 | KE-29983 | Present(27176) | HSR003125 |

## SECTION 16. OTHER INFORMATION

**Legend** :

ACGIH: American Conference of Governmental Industrial Hygienists
AICS: Australian Inventory of Chemical Substances
ATE: Acute Toxicity Estimate
CA: California
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
CSA: Canadian Standards Association
DOT: Department of Transportation
ECHA: European Chemicals Agency
ECOTOX: U.S. EPA Ecotoxicology Database
EINECS: European Inventory of Existing Commercial chemical Substances
ENCS: Existing and New Chemical Substances
EPA: Environmental Protection Agency
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
IBC: Intermediate Bulk Container
IECSC: Inventory of Existing Chemical Substances
IMDG: International Maritime Dangerous Goods
IOC: Inventory of Chemicals
IUCLID: International Uniform ChemicaL Information Database
KECI: Korean Existing Chemicals Inventory
KECL: Korean Existing Chemicals List
LC: Lethal Concentration
LD: Lethal Dose
MA: Massachusetts
MN: Minnesota
N/Ap: Not Applicable
N/Av: Not Available
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NOEC: No observable effect concentration
NTP: National Toxicology Program

# SAFETY DATA SHEET

OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
SDS: Safety Data Sheet / Material Safety Data Sheet
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

**References** **:**

1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2014.
2. International Agency for Research on Cancer Monographs, searched 2015.
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2015 (Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - October 2012 version.
6. California Proposition 65 List - December 26, 2014 version

**Preparation Date (mm/dd/yyyy)**

**:** 03/31/2021

**Other special considerations for handling**

**:** Provide adequate information, instruction and training for operators.

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