# SAFETY DATA SHEET

**High Temp Coating Factory Gray**



## SECTION 1 - IDENTIFICATION

### 1.1 Product Identifier

**Manufacturer Product Number** : *E7305CT*
**Supplier Product Numbers** : *10395Z*

### 1.2 Other Means Of Identification

**Other Identifiers** : *Not Available*

### 1.3 Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against

**Recommended Use** : *Coating used to produce custom look for manifolds and headers*
**Restrictions On Use** : *None Identified*

### 1.4 Supplier Details

**Company Name** *The Easthill Group, Inc./The Eastwood Company*
**Address** *263 Shoemaker Road*
*Pottstown, PA 19464 - United States*
**Phone Number** *800-343-9353*
**Fax Number** *610-323-6268*
**Email**
**Website**

### 1.5 24 Hr Emergency Phone Number

**Emergency Number** : *800-424-9300*

## SECTION 2 - HAZARDS IDENTIFICATION

### 2.1 Classification Of The Substance Or Mixture

**Flammable Aerosols, Category 1** : *Extremely flammable aerosol*
**Gases Under Pressure : Dissolved Gas** : *Contains gas under pressure; may explode if heated*
**Serious Eye Damage/Eye Irritation, Category 2a** : *Causes serious eye irritation*
**Carcinogenicity, Category 2** : *Suspected of causing cancer*
**Reproductive Toxicity, Category 2** : *Suspected of damaging fertility or the unborn child*
**Specific Target Organ Toxicity — Single Exposure, Category 3, Narcosis** : *May cause drowsiness or dizziness*
**Specific Target Organ Toxicity — Repeated Exposure, Category 2** : *May cause damage to organs through prolonged or repeated exposure*

### 2.2 Label Elements

**Hazard Pictograms** :

*GHS02* *GHS04* *GHS07* *GHS08*

**Signal Word** : *Danger*
**Hazard Statements** : *Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.*

**Preautionary Statements** : *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 spray. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye protection. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call physician if you feel unwell. Get medical advice/attention if you feel unwell. If eye irritation persists: Get medical advice/attention. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container to local regulations.*

### 2.3 Other Hazards Which Do Not Result In Classification

**Hazards Not Otherwise Classified** : *None Identified.*

### 2.4 Unknown Acute Toxicity

*46.32% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)*
*46.32% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)*
*12.66% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))*

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substance

*Not Applicable*

### 3.2 Mixture

| Ingredient | Cas Number | % | Classification* |
|---|---|---|---|
| *Dimethyl Ether* | *115-10-6* | *30 - 60* | *Flam. Gas 1, H220*<br>*Dissolved gas, H280* |
| *N-Butyl Acetate* | *123-86-4* | *10 - 30* | *Flam. Liq. 2, H225*<br>*STOT SE 3, H336* |
| *Dimethyl Carbonate* | *616-38-6* | *5 - 10* | *Flam. Liq. 2, H225* |
| *Acetone* | *67-64-1* | *5 - 10* | *Flam. Liq. 2, H225*<br>*Eye Irrit. 2A, H319*<br>*STOT SE 3, H336* |
| *Propylene Glycol Monomethyl Ether Acetate* | *108-65-6* | *5 - 10* | *Flam. Liq. 3, H226* |
| *Toluene* | *108-88-3* | *5 - 10* | *Flam. Liq. 2, H225*<br>*Skin Irrit. 2, H315*<br>*Repr. 2, H361*<br>*STOT SE 3, H336*<br>*STOT RE 2, H373*<br>*Asp. Tox. 1, H304*<br>*Aquatic Acute 2, H401* |
| *Methyl Acetate* | *79-20-9* | *1 - 5* | *Flam. Liq. 2, H225*<br>*Eye Irrit. 2A, H319*<br>*STOT SE 3, H336* |
| *Tripoli* | *1317-95-9* | *1 - 5* | *Carc. 2, H351* |
| *Methanol* | *67-56-1* | *0.1 - 1* | *Flam. Liq. 2, H225*<br>*Acute Tox. 3 (Oral), H301*<br>*Acute Tox. 3 (Dermal), H311*<br>*Acute Tox. 3 (Inhalation:vapour), H331*<br>*STOT SE 1, H370* |
| *Ethyl Benzene* | *100-41-4* | *0.1 - 1* | *Flam. Liq. 2, H225*<br>*Acute Tox. 4 (Inhalation:vapour), H332*<br>*Carc. 2, H351*<br>*STOT RE 2, H373*<br>*Asp. Tox. 1, H304*<br>*Aquatic Acute 2, H401* |

**Chemical name, CAS number and/or exact concentration have been withheld as a trade secret*

*Full text of hazard classes and H-statements : see section 16*

## SECTION 4 - FIRST-AID MEASURES

### 4.1 Description Of First-Aid Measures

**General Measures** : *IF exposed or concerned: Get medical advice/attention.*

**Eye Contact** : *Rinse eyes with water as a precaution.*

**Skin Contact** : *Wash skin with plenty of water.*

**Ingestion** : *Call a poison center or a doctor if you feel unwell.*

**Inhalation** : *Remove person to fresh air and keep comfortable for breathing.*

**First-Aid Responder Protection** : *Wear adequate personal protective equipment based on the nature and severity of the emergency.*

### 4.2 Most Important Symptoms And Effects, Both Acute And Delayed

**Eye Contact** : *Liquid contact may cause pain along with moderate eye irritation.*

**Skin Contact** : *Prolonged or repeated exposure may cause skin irritation. Repeated contact may cause drying or flaking skin. May cause more severe response if confined to skin.*

**Ingestion** : *Due to being an aerosol, the product does not lend itself to ingestion. Should ingestion occur, it may cause irritation to membranes of the mouth, thorat, and gastrointestinal tract resulting in vomiting and/or cramps. Aspriation of vomit into the lungs may cause inflammation, and possible chemical pneumonitis, bronchopneumonia, or pulmonary edema.*

**Inhalation** : *Prolonged or repeated overexposure is anesthetic. May cause irritation of the respiratory tract, or acute nervous system depression characterized by headache, dizziness, staggering gait, confusion or death. Irritation of the mucous membranes, coughing, and dyspnea are also possible.*

### 4.3 Indication Of Immediate Medical Attention And Special Treatment

**Notes To Physician** : *Treat symptomatically.*

**Specific Treatments/Antidotes** : *No Information Available.*

**Immediate Medical Attention** : *No Information Available.*

## SECTION 5 - FIRE-FIGHTING MEASURES

### 5.1 Suitable Extinguishing Media

**Extinguishing Media** : *Water, carbon dioxide, dry chemical, universal aqueous film forming foam.*

**Unsuitable Media** : *Water jet.*

### 5.2 Specific Hazards Arising From The Chemical Or Mixture

**Decomposition Products** : *Decomposition products may include: oxides of carbon, smoke, vapors.*

**Hazards From The Product** : *Extremely flammable. Contents under pressure. In a fire or if heated, a pressure increase will occur which may result in container bursting. Vapors heavier than air may spread along the ground and travel to ignition an source.*

### 5.3 Special Protective Actions For Fire-Fighters

**Protective Actions** : *Use water spray to cool fire exposed aerosol containers, as contents can rupture violently from heat developed pressure.*

**Protective Equipment** : *Firemen should wear self-contained breathing apparatus with full face-piece operated in positive pressure mode.*

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

### 6.1 Personal Precautions, Protective Equipment And Emergency Procedures

**For Non-Emergency Personnel** : *No action should be taken involving any personnel without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill. Remove ignition sources and provide adequate ventilation only if it is safe to do so.*

**For Emergency Responders** : *Use personal protection as recommended in Section 8. Observe precautions provided for non-emergency personnel above.*

### 6.2 Environmental Precautions

**Precautions** : *Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.*

### 6.3 Methods And Materials For Containment And Cleaning Up

**Containment Procedures** : *Product is an aerosol, therefore spills and leaks are unlikely. In case of rupture, released content may be contained with oil/solvent absorbent pads, socks, and/or absorbents.*

**Cleanup Procedures** : *Spills from aerosol cans are unlikely and are generally of small volume. Large spills are therefore not normally considered a problem. In case of actual rupture, avoid breathing vapors and ventilate area well. Remove sources of ignition and use non-sparking equipment. Soak up material with inert absorbent and place in safety containers for proper disposal.*

**Other Information** : *Aerosol products represent a limited hazard and will not spill or leak unless ruptured. In case of rupture contents are generally evacuated from the can rapidly. Area should be ventilated immediately and continuous ventilation provided until all fumes and vapors have been removed. Aerosol cans should never be incinerated or burned.*

**Prohibited Materials** : *Combustible absorbent material such as sawdust. Use of equipment that may cause sparking.*

## SECTION 7 - HANDLING AND STORAGE

### 7.1 Precautions For Safe Handling

**General Handling Precautions** : *KEEP OUT OF THE REACH OF CHILDREN. Avoid prolonged or repeated skin contact. Avoid breathing of vapors. Do not incinerate (burn) containers. Always replace overcap when not in use. Avoid use around open flames or other sources of ignition. Exposure to heat or prolonged exposure to sun may cause can to burst. Use only with adequate ventilation, opening doors or windows to achieve cross-ventilation.*

**Hygiene Recommendations** : *Do not eat, drink or smoke when using this product. Wash hands thoroughly after use. Remove contaminated clothing and protective equipment before entering eating or smoking areas.*

### 7.2 Conditions For Safe Storage Including Any Incompatibilities

**Storage Requirements** : *Storage of individual cans should be done in an area below 55°C (120 °F), and away from heat sources. Ensure can is in a secure place to prevent knocking over and accidental rupture. For storage of pallet quantities, compliance with NFPA 30B (Manufacture and Storage of Aerosol Products) is recommended.*

**Incompatibilities** : *Segregate storage away from materials indicated in Section 10.*

**NFPA 30B Classification** : *This product is classified as a Level 3 Aerosol per NFPA 30B.*

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control Parameters

| ***Dimethyl Ether (115-10-6)*** | | |
|---|---|---|
| *Not applicable* | | |

| ***n-Butyl Acetate (123-86-4)*** | | |
|---|---|---|
| *ACGIH* | *ACGIH TWA (ppm)* | *150 ppm* |
| *ACGIH* | *ACGIH STEL (ppm)* | *200 ppm* |
| *OSHA* | *OSHA PEL (TWA) (mg/m³)* | *710 mg/m³* |
| *OSHA* | *OSHA PEL (TWA) (ppm)* | *150 ppm* |
| *NIOSH* | *US IDLH (ppm)* | *1700 ppm* |
| *NIOSH* | *NIOSH REL (TWA) (ppm)* | *150 ppm* |
| *NIOSH* | *NIOSH REL (STEL) (ppm)* | *200 ppm* |
| *California* | *California PEL (TWA) (mg/m3)* | *710 mg/m³* |
| *California* | *California PEL (TWA) (ppm)* | *150 ppm* |
| *California* | *California PEL (STEL) (mg/m3)* | *950 mg/m³* |
| *California* | *California PEL (STEL) (ppm)* | *200 ppm* |

| ***Propylene Glycol Monomethyl Ether Acetate (108-65-6)*** | | |
|---|---|---|
| *California* | *California PEL (TWA) (mg/m3)* | *541 mg/m³* |
| *California* | *California PEL (TWA) (ppm)* | *100 ppm* |
| *Not applicable* | | |

| ***Toluene (108-88-3)*** | | |
|---|---|---|
| *ACGIH* | *ACGIH TWA (ppm)* | *20 ppm* |
| *ACGIH* | *ACGIH STEL (ppm)* | *150 ppm* |
| *OSHA* | *OSHA PEL (TWA) (ppm)* | *200* |
| *OSHA* | *OSHA PEL (Ceiling) (ppm)* | *300 ppm* |
| *NIOSH* | *US IDLH (ppm)* | *500 ppm* |
| *NIOSH* | *NIOSH REL (TWA) (ppm)* | *100 ppm* |
| *NIOSH* | *NIOSH REL (STEL) (ppm)* | *150 ppm* |
| *California* | *California PEL (TWA) (mg/m3)* | *37 mg/m³* |
| *California* | *California PEL (TWA) (ppm)* | *10 ppm* |
| *California* | *California PEL (STEL) (mg/m3)* | *560 mg/m³* |
| *California* | *California PEL (STEL) (ppm)* | *150 ppm* |
| *California* | *California PEL (Ceiling) (ppm)* | *500 ppm* |
| *BEI* | *Toluene in blood, Prior to last shift of workweek* | *0.02 mg/l* |
| *BEI* | *Toluene in urine, End of shift* | *0.03 mg/l* |
| *BEI* | *o-Cresol in urine (with hydrolysis), End of shift (B)* | *0.3 mg/g creatinine* |

| ***Ethyl Benzene (100-41-4)*** | | |
|---|---|---|
| *ACGIH* | *ACGIH TWA (ppm)* | *20 ppm* |
| *OSHA* | *OSHA PEL (TWA) (mg/m³)* | *435 mg/m³* |
| *OSHA* | *OSHA PEL (TWA) (ppm)* | *100 ppm* |
| *NIOSH* | *US IDLH (ppm)* | *800 ppm* |
| *NIOSH* | *NIOSH REL (TWA) (mg/m³)* | *435* |
| *NIOSH* | *NIOSH REL (TWA) (ppm)* | *100 ppm* |
| *NIOSH* | *NIOSH REL (STEL) (mg/m³)* | *545 mg/m³* |
| *NIOSH* | *NIOSH REL (STEL) (ppm)* | *125 ppm* |
| *California* | *California PEL (TWA) (mg/m3)* | *22 mg/m³* |
| *California* | *California PEL (TWA) (ppm)* | *5 ppm* |

| ***Tripoli (1317-95-9)*** | | |
|---|---|---|
| *ACGIH* | *ACGIH TWA (mg/m³)* | *0.025 mg/m³* |
| *OSHA* | *OSHA PEL (TWA) (mg/m³)* | *0.1 mg/m³* |
| *NIOSH* | *US IDLH (mg/m³)* | *50 mg/m³* |
| *NIOSH* | *NIOSH REL (TWA) (mg/m³)* | *0.05 mg/m³* |

| ***Dimethyl Carbonate (616-38-6)*** |
|---|
| *Not applicable* |

| ***Acetone (67-64-1)*** | | |
|---|---|---|
| *ACGIH* | *ACGIH TWA (ppm)* | *250 ppm* |
| *ACGIH* | *ACGIH STEL (ppm)* | *500 ppm* |
| *OSHA* | *OSHA PEL (TWA) (mg/m³)* | *2400 mg/m³* |
| *OSHA* | *OSHA PEL (TWA) (ppm)* | *1000 ppm* |
| *NIOSH* | *US IDLH (ppm)* | *2500 ppm* |
| *NIOSH* | *NIOSH REL (TWA) (ppm)* | *250 ppm* |
| *California* | *California PEL (TWA) (mg/m3)* | *1200 mg/m³* |
| *California* | *California PEL (TWA) (ppm)* | *500 ppm* |

| ***Acetone (67-64-1)*** | | |
|---|---|---|
| *California* | *California PEL (STEL) (mg/m3)* | *1780 mg/m³* |
| *California* | *California PEL (STEL) (ppm)* | *750 ppm* |
| *California* | *California PEL (Ceiling) (ppm)* | *3000 ppm* |
| *BEI* | *Acetone in urine, End of shift (Ns)* | *25 mg/l* |

| ***Methanol (67-56-1)*** | | |
|---|---|---|
| *ACGIH* | *ACGIH TWA (ppm)* | *200 ppm* |
| *ACGIH* | *ACGIH STEL (ppm)* | *250 ppm* |
| *OSHA* | *OSHA PEL (TWA) (mg/m³)* | *260 mg/m³* |
| *OSHA* | *OSHA PEL (TWA) (ppm)* | *200 ppm* |
| *NIOSH* | *US IDLH (ppm)* | *6000 ppm* |
| *NIOSH* | *NIOSH REL (TWA) (ppm)* | *200 ppm* |
| *California* | *California PEL (TWA) (mg/m3)* | *260 mg/m³* |
| *California* | *California PEL (TWA) (ppm)* | *200 ppm* |
| *California* | *California PEL (STEL) (mg/m3)* | *325 mg/m³* |
| *California* | *California PEL (STEL) (ppm)* | *250 ppm* |
| *California* | *California PEL (Ceiling) (ppm)* | *1000 ppm* |
| *BEI* | *Methanol in Urine, End of shift (B,Ns)* | *15 mg/l* |

| ***Methyl Acetate (79-20-9)*** | | |
|---|---|---|
| *ACGIH* | *ACGIH TWA (ppm)* | *200 ppm* |
| *ACGIH* | *ACGIH STEL (ppm)* | *250 ppm* |
| *OSHA* | *OSHA PEL (TWA) (mg/m³)* | *610 mg/m³* |
| *OSHA* | *OSHA PEL (TWA) (ppm)* | *200 ppm* |
| *NIOSH* | *US IDLH (ppm)* | *3100 ppm* |
| *NIOSH* | *NIOSH REL (TWA) (mg/m³)* | *610 mg/m³* |
| *NIOSH* | *NIOSH REL (TWA) (ppm)* | *200 ppm* |
| *NIOSH* | *NIOSH REL (STEL) (mg/m³)* | *760 mg/m³* |
| *NIOSH* | *NIOSH REL (STEL) (ppm)* | *250 ppm* |
| *California* | *California PEL (TWA) (mg/m3)* | *610 mg/m³* |
| *California* | *California PEL (TWA) (ppm)* | *200 ppm* |
| *California* | *California PEL (STEL) (mg/m3)* | *760 mg/m³* |
| *California* | *California PEL (STEL) (ppm)* | *250 ppm* |

## 8.2 Exposure Controls

**Engineering Measures** : *Use only with adequate ventilation. General ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system may be necessary to control air contamination below that of the lowest OEL from the table above.*

**Respiratory Protection** : *An approved respirator with an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed occupational exposure limits. If respirators are needed, in the United States compliance with OSHA standard 29 CFR 1910.134 is necessary.*

**Skin Protection** : *For brief contact, no precautions other than clean body-covering clothing should be needed. When prolonged or repeated contact could occur, use protective clothing impervious to the ingredients listed in Section 2.*

**Eye/Face Protection** : *Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling. Where eye contact with this material could occur, chemical splash proof goggles are recommended.*

**Other Protective Equipment** : *Safety showers and eye-wash stations should be available in the workplace near where the material will be used.*

# SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Physical Properties

| | | | |
|---|---|---|---|
| **Boiling Point** | *> 13.30 °C* | **Melting / Freezing Point** | *> -95.00 °C* |
| **Flash Point, Liquid** | *> -20.00 °C* | **Flash Point, Propellant** | *-41.10 °C* |
| **Explosive Limits** | *LEL: 1.00 UEL: 31.00 vol %* | **Autoignition Temperature, Liquid** | *354.00 °C* |
| **Flammability** | *Extremely Flammable Aerosol* | **Density** | *0.860 g/cm³* |
| **Molecular Weight** | *Not Available* | **Weight** | *7.177 lbs/gal* |
| **Vapor Pressure** | *Not Available* | **pH** | *Not Available* |
| **Vapor Density** | *Not Available* | **Evaporation Rate (nBAc=1)** | *Not Available* |
| **Viscosity** | *Not Available* | **Partition Coefficient** | *Not Available* |
| **Odor Threshold** | *Not Available* | **Refractive Index** | *Not Available* |
| **Physical Form** | *Pressurized Product* | **Heat Of Combustion** | *Not Available* |
| **Odor** | *Paint-like* | **Water Solubility** | *Not Available* |
| **Appearance / Color** | *Gray coating* | **Decomposition Temperature** | *Not Available* |

### 9.2 Environmental Properties

| | | | |
|---|---|---|---|
| **Percent Volatile** | *85.62 % wt* | **VOC Regulatory** | *739.85 g/L (6.17 lbs/gal)* |
| **Percent VOC** | *64.30 % wt* | **VOC Actual** | *552.95 g/L (4.61 lbs/gal)* |
| **Percent HAP** | *8.12 % wt* | **HAP Content** | *69.83 g/L (0.58 lbs/gal)* |
| **Global Warming Potential** | *0.26 GWP* | **Maximum Incremental Reactivity** | *0.9110 g O3/g* |
| **Ozone Depletion Potential** | *0.00 ODP* | | |

## SECTION 10 - STABILITY AND REACTIVITY

### 10.1 Reactivity

**Reactivity** : *No specific test data related to reactivity is available for this products or its ingredients.*

### 10.2 Chemical Stability

**Stability** : *This product is stable.*

### 10.3 Possibility Of Hazardous Reactions

**Reactions** : *Under normal conditions of storage and use, hazardous reactions are not expected to occur.*

### 10.4 Conditions To Avoid

**Conditions** : *Electrostatic Discharge, Other Ignition Sources, Temperatures above 140°F (60°C), Hot Surfaces, Heat, Flames, Sparks.*

### 10.5 Incompatible Materials

**Incompatibilities** : *Strong Oxidizing Agents, Strong Reducing Agents, Alkali Metals, Strong Acids, Potassium t-Butoxide, Hydrogen Peroxide, Magnesium, Chromium Trioxide.*

### 10.6 Hazardous Decomposition Products

**Products** : *Oxides of carbon, Formaldehyde, Methanol, Acetic Acid.*

## SECTION 11 - TOXICOLOGICAL INFORMATION

### 11.1.1 Information On Toxicological Effects

| ***Dimethyl Ether (115-10-6)*** | |
|---|---|
| *LC50 Inhalation (Rat)* | *164000 ppm/4h (RTECS)* |

| ***n-Butyl Acetate (123-86-4)*** | |
|---|---|
| *LD50 Oral (Rat)* | *13100 mg/kg (IUCLID)* |
| *LD50 Dermal (Rabbit)* | *> 14100 mg/kg (IUCLID)* |
| *LC50 Inhalation (Rat)* | *> 21 mg/l/4h (IUCLID)* |

| *Propylene Glycol Monomethyl Ether Acetate (108-65-6)* | |
|---|---|
| *LD50 Oral (Rat)* | *8532 mg/kg (RTECS)* |
| *LD50 Dermal (Rabbit)* | *> 5000 mg/kg bodyweight (RTECS)* |
| *LC50 Inhalation (Rat)* | *5250 ppm/4h (ChemInfo)* |

| *Toluene (108-88-3)* | |
|---|---|
| *LD50 Oral (Rat)* | *> 2000 mg/kg (Lit.)* |
| *LD50 Dermal (Rabbit)* | *12124 mg/kg (IUCLID)* |
| *LC50 Inhalation (Rat)* | *> 20 mg/l/4h (Rat; Literature study)* |

| *Ethyl Benzene (100-41-4)* | |
|---|---|
| *LD50 Oral (Rat)* | *4720 mg/kg (ChemInfo)* |
| *LD50 Dermal (Rabbit)* | *15380 mg/kg (ChemInfo)* |
| *LC50 Inhalation (Rat)* | *17.2 mg/l/4h (IUCLID)* |
| *LC50 Inhalation (Rat)* | *4000 ppm/4h (ChemInfo)* |

| *Dimethyl Carbonate (616-38-6)* | |
|---|---|
| *LD50 Oral (Rat)* | *13000 mg/kg (RTECS)* |
| *LD50 Dermal (Rabbit)* | *> 5000 mg/kg (RTECS)* |
| *LC50 Inhalation (Rat)* | *> 140 mg/l/4h (IUCLID)* |

| *Acetone (67-64-1)* | |
|---|---|
| *LD50 Oral (Rat)* | *5800 mg/kg (ECHA)* |
| *LD50 Dermal (Rabbit)* | *20000 mg/kg (IUCLID)* |
| *LC50 Inhalation (Rat)* | *76 mg/l/4h (Lit.)* |

| *Methanol (67-56-1)* | |
|---|---|
| *LD50 Oral (Rat)* | *5850 mg/kg (ChemInfo)* |
| *LD50 Dermal (Rabbit)* | *15800 mg/kg (RTECS)* |
| *LC50 Inhalation (Rat)* | *131.25 mg/l/4h (ECHA)* |
| *LC50 Inhalation (Rat)* | *64000 ppm/4h (ChemInfo)* |

| *Methyl Acetate (79-20-9)* | |
|---|---|
| *LD50 Oral (Rat)* | *6970 mg/kg (Lit.)* |
| *LD50 Dermal (Rabbit)* | *> 5000 mg/kg (RTECS)* |
| *LC50 Inhalation (Rat)* | *16000 - 32000 (ChemInfo)* |

### 11.1.2 Health Hazard Classification

**Skin Corrosion/Irritation** : *Not classified*

**Eye Damage/Irritation** : *Causes serious eye irritation.*

**Respiratory Or Skin Sensitization** : *Not classified*

**Germ Cell Mutagenicity** : *Not classified*

**Reproductive Toxicity** : *Suspected of damaging fertility or the unborn child.*

**Stot-Single Exposure** : *May cause drowsiness or dizziness.*

**Stot-Repeated Exposure** : *May cause damage to organs through prolonged or repeated exposure.*

**Aspiration Hazard** : *Not classified*

**Carcinogen Data** : *The following ingredients are listed as known or suspected carcinogens:*

| *Ethyl Benzene (100-41-4)* | |
|---|---|
| *IARC group* | *2B - Possibly carcinogenic to humans* |
| *ACGIH Category* | *A3 - Confirmed animal carcinogen with unknown relevance to humans* |

| *Tripoli (1317-95-9)* | |
|---|---|
| *ACGIH Category* | *A2 - Suspected human carcinogen* |

### 11.1.3 Information On The Likely Routes Of Exposure

**Routes Of Exposure** : *Eye Contact, Ingestion, Skin Contact, Inhalation, Skin Absorption.*

### 11.1.4 Symptoms Related To The Physical, Chemical And Toxicological Characteristics

**Symptoms of Exposure** : *Eye Irritation, Nose Irritation, Throat Irritation, Dermatitis, Skin Irritation, Headache, Dizziness, Nausea, Narcosis, Upper Respiratory Tract Irritation, Drowsiness, Vomiting, Optical Nerve Damage, Cough, Chest Tightness.*

### 11.1.5 Delayed And Immediate Effects And Also Chronic Effects From Short And Long Term Exposure

**Delayed Effects** : *No known delayed effects.*

**Immediate Effects** : *No known immediate effects.*

**Chronic Effects** : *Methyl alcohol may be fatal or cause blindness if swallowed.*

**Target Organs** : *Central Nervous System, Eyes, Gastrointestinal Tract, Respiratory System, Skin.*

**Medical Conditions Aggravated** : *None identified.*

## SECTION 12 - ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

**Ecology - general** : *The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.*

| ***n-Butyl Acetate (123-86-4)*** | |
|---|---|
| *LC50 fish 1* | *62 mg/l Golden Orfe - 96hr* |
| *EC50 Daphnia 1* | *72.8 mg/l Water Flea - 24hr* |
| *EC50 other aquatic organisms 1* | *675 mg/l Green Algae - 72hr* |
| *EC50 other aquatic organisms 2* | *959 mg/l Bacteria - 18hr* |

| ***Propylene Glycol Monomethyl Ether Acetate (108-65-6)*** | |
|---|---|
| *LC50 fish 1* | *100 - 180 ml/l Rainbow Trout - 96hr* |
| *EC50 Daphnia 1* | *373 mg/l Water Flea - 48hr* |

| ***Toluene (108-88-3)*** | |
|---|---|
| *LC50 fish 1* | *5.8 mg/l Rainbow Trout - 96hr* |
| *LC50 other aquatic organisms 1* | *10 mg/l Green Algae - 72hr* |
| *EC50 Daphnia 1* | *6 mg/l Water Flea - 48hr* |

| ***Ethyl Benzene (100-41-4)*** | |
|---|---|
| *LC50 fish 1* | *4.2 mg/l Rainbow Trout - 96hr* |
| *EC50 Daphnia 1* | *2.4 mg/l Water Flea - 48hr* |
| *EC50 other aquatic organisms 1* | *9.68 mg/l Bacteria - 30min* |
| *EC50 other aquatic organisms 2* | *4.6 mg/l Green Algae - 72hr* |

| ***Dimethyl Carbonate (616-38-6)*** | |
|---|---|
| *LC50 fish 1* | *> 100 mg/l Zebra Fish - 96hr* |
| *LC50 fish 2* | *1000 mg/l Golden Orfe - 96hr* |
| *EC50 Daphnia 1* | *> 100 mg/l Water Flea - 48hr* |
| *EC50 other aquatic organisms 1* | *> 100 mg/l Green Algae - 72hr* |

| ***Acetone (67-64-1)*** | |
|---|---|
| *LC50 fish 1* | *5540 mg/l 96h, Rainbow Trout (Lit.)* |
| *EC50 Daphnia 1* | *12600 mg/l 48h, Water Flea (Lit.)* |

| ***Methanol (67-56-1)*** | |
|---|---|
| *LC50 fish 1* | *15400 mg/l Bluegill Sunfish - 96h* |
| *EC50 Daphnia 1* | *> 10000 mg/l Water Flea - 48hr* |
| *EC50 other aquatic organisms 1* | *22000 mg/l Freshwater Algae - 96hr* |

| ***Methyl Acetate (79-20-9)*** | |
|---|---|
| *LC50 fish 1* | *250 - 350 mg/l Zebra Fish - 96hr* |
| *EC50 Daphnia 1* | *1026.7 mg/l Water Flea - 48hr* |

### 12.2 Ecological Properties

| ***Dimethyl Ether (115-10-6)*** | |
|---|---|
| *Persistence and degradability* | *Not readily biodegradable in water. Non degradable in the soil. Not applicable (gas).* |
| *Log Pow* | *0.10 (Experimental value; 0.07; QSAR; KOWWIN; 25 °C)* |

| ***Dimethyl Ether (115-10-6)*** | |
|---|---|
| *Bioaccumulative potential* | *Low potential for bioaccumulation (Log Kow < 4).* |

| ***n-Butyl Acetate (123-86-4)*** | |
|---|---|
| *Persistence and degradability* | *Biodegradability 88% / 28 days.* |
| *Biochemical oxygen demand (BOD)* | *520 mg/g* |
| *Chemical oxygen demand (COD)* | *2320 mg/g* |
| *ThOD* | *2207 mg/g* |
| *Log Pow* | *1.804* |
| *Log Koc* | *2.35* |

| ***Propylene Glycol Monomethyl Ether Acetate (108-65-6)*** | |
|---|---|
| *Persistence and degradability* | *Biodegradability 100% / 8 days.* |
| *Biochemical oxygen demand (BOD)* | *330 mg/g* |
| *Chemical oxygen demand (COD)* | *1740 mg/g* |
| *ThOD* | *1820 mg/g* |
| *Log Pow* | *0.56* |
| *Bioaccumulative potential* | *Low potential for bioaccumulation (Log Kow < 4).* |
| *Log Koc* | *0.36* |

| ***Toluene (108-88-3)*** | |
|---|---|
| *Persistence and degradability* | *Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.* |
| *Biochemical oxygen demand (BOD)* | *2.15 g $O_2$/g substance* |
| *Chemical oxygen demand (COD)* | *2.52 g $O_2$/g substance* |
| *ThOD* | *3.13 g $O_2$/g substance* |
| *BOD (% of ThOD)* | *0.69* |
| *BCF fish 2* | *90 (BCF; 72 h; Leuciscus idus; Static system; Fresh water)* |
| *Log Pow* | *2.73 (Experimental value; Other; 20 °C)* |
| *Bioaccumulative potential* | *Low potential for bioaccumulation (BCF < 500).* |

| ***Ethyl Benzene (100-41-4)*** | |
|---|---|
| *Persistence and degradability* | *Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.* |
| *Biochemical oxygen demand (BOD)* | *1.44 g $O_2$/g substance (20d.)* |
| *Chemical oxygen demand (COD)* | *2.1 g $O_2$/g substance* |
| *ThOD* | *3.17 g $O_2$/g substance* |
| *BOD (% of ThOD)* | *45.4 (20 days)* |
| *BCF fish 1* | *1 (BCF; Other; 6 weeks; Oncorhynchus kisutch; Flow-through system; Salt water; Literature study)* |
| *BCF fish 2* | *15 - 79 (BCF)* |
| *BCF other aquatic organisms 1* | *4.68 (BCF)* |
| *Log Pow* | *3.15 (Experimental value; 3.6; Experimental value; EU Method A.8: Partition Coefficient; 20 °C)* |
| *Bioaccumulative potential* | *Low potential for bioaccumulation (BCF < 500).* |
| *Log Koc* | *log Koc,PCKOCWIN v1.66; 2.71; Calculated value; Koc; PCKOCWIN v1.66; 517.8; Calculated value* |

| ***Tripoli (1317-95-9)*** | |
|---|---|
| *Persistence and degradability* | *Biodegradability in soil: not applicable.* |
| *Biochemical oxygen demand (BOD)* | *Not applicable* |
| *Chemical oxygen demand (COD)* | *Not applicable* |
| *ThOD* | *Not applicable* |
| *Bioaccumulative potential* | *No bioaccumulation data available.* |

| ***Dimethyl Carbonate (616-38-6)*** | |
|---|---|
| *Persistence and degradability* | *Biodegradability 86% / 28 days.* |
| *Chemical oxygen demand (COD)* | *756 mg/g* |
| *Log Pow* | *0.23* |
| *Bioaccumulative potential* | *Not bioaccumulative.* |
| *Log Koc* | *0.917* |

| ***Acetone (67-64-1)*** | |
|---|---|
| *Persistence and degradability* | *Biodegradability 90% / 28 days.* |
| *Biochemical oxygen demand (BOD)* | *1.43 g $O_2$/g substance* |
| *Chemical oxygen demand (COD)* | *1.92 g $O_2$/g substance* |
| *ThOD* | *2.20 g $O_2$/g substance* |
| *BOD (% of ThOD)* | *0.872 (20 days; Literature study)* |
| *BCF fish 1* | *0.69 (BCF)* |
| *BCF other aquatic organisms 1* | *3 (BCF; BCFWIN)* |
| *Log Pow* | *-0.24 (Test data)* |

| ***Acetone (67-64-1)*** | |
|---|---|
| *Bioaccumulative potential* | *Not bioaccumulative.* |

| ***Methanol (67-56-1)*** | |
|---|---|
| *Persistence and degradability* | *Biodegradability 72% / 5 days.* |
| *Biochemical oxygen demand (BOD)* | *0.6 - 1.12 g $O_2$/g substance* |
| *Chemical oxygen demand (COD)* | *1.42 g $O_2$/g substance* |
| *ThOD* | *1.5 g $O_2$/g substance* |
| *BOD (% of ThOD)* | *0.8 (Literature study)* |
| *BCF fish 1* | *< 10 (BCF; 72 h; Leuciscus idus)* |
| *Log Pow* | *-0.77 (Experimental value; Other)* |
| *Bioaccumulative potential* | *Low potential for bioaccumulation (BCF < 500).* |
| *Log Koc* | *0.44* |

| ***Methyl Acetate (79-20-9)*** | |
|---|---|
| *Persistence and degradability* | *Biodegradability 70% / 28 days.* |
| *Chemical oxygen demand (COD)* | *1511.8 mg/g* |
| *ThOD* | *1510 mg/g* |
| *BCF fish 1* | *< 1 (BCF)* |
| *Log Pow* | *0.18* |
| *Bioaccumulative potential* | *Low potential for bioaccumulation (BCF < 500).* |
| *Log Koc* | *0.68* |

## SECTION 13 - DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods

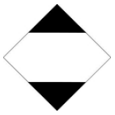
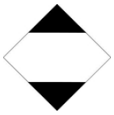
**Waste Disposal** : *Characteristics and waste stream classification can change with product use and location. It is the responsibility of the user to determine the proper storage, transportation, treatment, and/or disposal methodologies for spent materials and residues at the time of disposition. All waste must be disposed of in compliance with the respective national, federal, state, and/or local regulations.*

**Waste Disposal Of Packaging** : *In the United States, an aerosol container that does not contain a significant amount of liquid would meet the definition of scrap metal (40 CFR 261.1(c)(6)), and would be exempt from RCRA regulation under 40 CFR 261.6(a)(3)(iv) if it is to be recycled. If containers are to be disposed of (not recycled) it must be managed under all applicable RCRA and state regulations.*

**Landfill Precautions** : *Not Available.*

**Incineration Precautions** : *** DO NOT INCINERATE ** CONTENTS UNDER PRESSURE **.*

## SECTION 14 - TRANSPORTATION INFORMATION

| ***Transportation Information*** | ***Ground Transportation (DOT)*** | ***Air Transportation (IATA)*** | ***Ocean Transportation (IMDG)*** |
|---|---|---|---|
| *Identification Number* | *UN1950* | *UN1950* | *UN1950* |
| *Proper Shipping Name* | *Aerosols, Limited Quantity* | *Aerosols, Flammable, Limited Quantity* | *Aerosols, Limited Quantity* |
| *Hazard Class(es)* | *2.1* | *2.1* | *2.1* |
| *Packaging Group* | *None* | *None* | *None* |
| *Limited Quantity* | *Yes*  | *Yes*   | *Yes*  |
| *Marine Pollutant* | *No* | *No* | *No* |
| *Hazard Labels* | | *2.1 - Flammable gas*   | |

## SECTION 15 - REGULATORY INFORMATION

## 15.1 Federal Regulations

**TSCA Inventory** : *All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:*

**SARA 313 Reporting** : *Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.*

| | | |
|---|---|---|
| *Toluene* | *CAS No 108-88-3* | *5 - 10%* |
| *Ethyl Benzene* | *CAS No 100-41-4* | *< 1%* |
| *Xylene* | *CAS No 1330-20-7* | *< 1%* |
| *Methanol* | *CAS No 67-56-1* | *< 1%* |
| *Aluminum* | *CAS No 7429-90-5* | *< 1%* |

**Applicable Federal Regulations** : *One or more ingredients are regulated by other Federal Regulations.*

| ***Toluene (108-88-3)*** | |
|---|---|
| *CERCLA RQ* | *1000 lb* |

| ***Ethyl Benzene (100-41-4)*** | |
|---|---|
| *CERCLA RQ* | *1000 lb* |
| *CWA Reportable Quantity* | *1000 lb* |
| *SARA Section 311/312 Hazard Classes* | *Delayed (chronic) health hazard, Fire hazard, Immediate (acute) health hazard.* |

| ***Acetone (67-64-1)*** | |
|---|---|
| *CERCLA RQ* | *5000 lb* |

| ***Methanol (67-56-1)*** | |
|---|---|
| *CERCLA RQ* | *5000 lb* |

## 15.2 State Regulations

**California Proposition 65** : *This product contains chemcials known to the State of California to cause cancer, birth defects or other reproductive harm.*

| ***Toluene (108-88-3)*** | |
|---|---|
| *Developmental Toxicity* | *Yes* |
| *Non-significant risk level (NSRL)* | *7000* |

| ***Ethyl Benzene (100-41-4)*** | |
|---|---|
| *Cancer* | *Yes* |
| *Non-significant risk level (NSRL)* | *54* |

| ***Methanol (67-56-1)*** | |
|---|---|
| *Developmental Toxicity* | *Yes* |

**State Right-to-Know Lists** : *The following ingredients appear on one or more state Right-to-Know lists.*

| ***Dimethyl Ether (115-10-6)*** |
|---|
| *U.S. - New Jersey - Right to Know Hazardous Substance List* |

| ***Toluene (108-88-3)*** |
|---|
| *U.S. - Massachusetts - Right To Know List*<br>*U.S. - New Jersey - Right to Know Hazardous Substance List*<br>*U.S. - Pennsylvania - RTK (Right to Know) List* |

| ***Ethyl Benzene (100-41-4)*** |
|---|
| *U.S. - Massachusetts - Right To Know List*<br>*U.S. - New Jersey - Right to Know Hazardous Substance List*<br>*U.S. - Pennsylvania - RTK (Right to Know) List* |

| ***Tripoli (1317-95-9)*** |
|---|
| *U.S. - New Jersey - Right to Know Hazardous Substance List* |

| ***Dimethyl Carbonate (616-38-6)*** |
|---|
| *U.S. - New Jersey - Right to Know Hazardous Substance List* |

| ***Acetone (67-64-1)*** |
|---|
| *U.S. - Massachusetts - Right To Know List* |
| *U.S. - New Jersey - Right to Know Hazardous Substance List* |
| *U.S. - Pennsylvania - RTK (Right to Know) List* |

| ***Methanol (67-56-1)*** |
|---|
| *U.S. - New Jersey - Right to Know Hazardous Substance List* |
| *U.S. - Pennsylvania - RTK (Right to Know) List* |

| ***Methyl Acetate (79-20-9)*** |
|---|
| *U.S. - New Jersey - Right to Know Hazardous Substance List* |

## SECTION 16 - OTHER INFORMATION

**SDS Compliance** : *This SDS complies with the below listed regulations only. For SDS that comply with other countries, please contact our Regulatory Department at msds@chem-pak.com.*
*OSHA Hazard Communication Standard (HCS 2012) 29 CFR 1910.1200*
*Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Revision 3*

**Disclaimer Of Liability** : *The information contained herein is based upon data provided to us by our suppliers, and reflects our best judgement. However, no warranty of merchantability, fitness for any use, or any other warranty or guarantee is expressed or implied regarding the accuracy of such data, or the results to be obtained from use thereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of such application. This information is furnished upon the condition that the persons receiving it shall make their own determinations of the suitability of the material for any particular use. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist*

**Full text of H-statements** :

| *H Code* | *H Phrase* |
|---|---|
| *H220* | *Extremely flammable gas* |
| *H222* | *Extremely flammable aerosol* |
| *H225* | *Highly flammable liquid and vapour* |
| *H226* | *Flammable liquid and vapour* |
| *H280* | *Contains gas under pressure; may explode if heated* |
| *H301* | *Toxic if swallowed* |
| *H304* | *May be fatal if swallowed and enters airways* |
| *H311* | *Toxic in contact with skin* |
| *H315* | *Causes skin irritation* |
| *H319* | *Causes serious eye irritation* |
| *H331* | *Toxic if inhaled* |
| *H332* | *Harmful if inhaled* |
| *H336* | *May cause drowsiness or dizziness* |
| *H351* | *Suspected of causing cancer* |
| *H361* | *Suspected of damaging fertility or the unborn child* |
| *H370* | *Causes damage to organs* |
| *H373* | *May cause damage to organs through prolonged or repeated exposure* |
| *H401* | *Toxic to aquatic life* |