

**Rust Encapsulator Matte Black Finish**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**SECTION 1 - IDENTIFICATION**
**1.1 Product Identifier**

Product Name : *Rust Encapsulator Matte Black Finish*  
 Product Number : *16060Z*

**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 : *Rust preventative*  
 Restrictions on Use : *None Identified*

**1.4 Supplier Details**

	Supplier Details
Company Name :	<i>The Easthill Group, Inc./The Eastwood Company</i>
Address :	<i>263 Shoemaker Road, Pottstown, PA 19464 - United States</i>
Phone Number :	<i>800-343-9353</i>
Fax Number :	<i>610-323-6268</i>
Email :	
Website :	<i>www.Eastwood.com</i>

**1.5 24 hr Emergency Phone Number**

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

**SECTION 2 - HAZARDS IDENTIFICATION**
**2.1 Classification of the Substance or Mixture**

<i>Flam. Aerosol 1</i>	<i>H222</i>	<i>Physical Hazards</i>	<i>Flammable aerosol Category 1</i>
<i>Press. Gas (Comp.)</i>	<i>H280</i>	<i>Physical Hazards</i>	<i>Gases under pressure Compressed gas</i>
<i>Skin Irrit. 2</i>	<i>H315</i>	<i>Health Hazards</i>	<i>Skin corrosion/irritation Category 2</i>
<i>Eye Irrit. 2</i>	<i>H319</i>	<i>Health Hazards</i>	<i>Serious eye damage/eye irritation Category 2</i>
<i>Skin Sens. 1</i>	<i>H317</i>	<i>Health Hazards</i>	<i>Skin sensitization, Category 1</i>
<i>Carc. 2</i>	<i>H351</i>	<i>Health Hazards</i>	<i>Carcinogenicity Category 2</i>
<i>Repr. 2</i>	<i>H361</i>	<i>Health Hazards</i>	<i>Reproductive toxicity Category 2</i>
<i>Stot Se 3</i>	<i>H335</i>	<i>Health Hazards</i>	<i>Specific target organ toxicity (single exposure) Category 3, Respiratory tract irritation</i>
<i>Stot Se 3</i>	<i>H336</i>	<i>Health Hazards</i>	<i>Specific target organ toxicity (single exposure) Category 3, Narcosis</i>
<i>Stot Re 2</i>	<i>H373</i>	<i>Health Hazards</i>	<i>Specific target organ toxicity (repeated exposure) Category 2</i>
<i>Aquatic Acute 2</i>	<i>H401</i>	<i>Environmental Hazards</i>	<i>Hazardous to the aquatic environment - Acute Hazard Category 2</i>
<i>Aquatic Chronic 2</i>	<i>H411</i>	<i>Environmental Hazards</i>	<i>Hazardous to the aquatic environment - Chronic Hazard Category 2</i>

**2.2 Label Elements**

Hazard Pictograms



Signal Word

**Danger**

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### Hazard Statements

H222 : Extremely flammable aerosol  
H280 : Contains gas under pressure; may explode if heated  
H315 : Causes skin irritation  
H317 : May cause an allergic skin reaction  
H319 : Causes serious eye irritation  
H335 : May cause respiratory irritation  
H336 : May cause drowsiness or dizziness  
H351 : Suspected of causing cancer  
H361 : Suspected of damaging fertility or the unborn child  
H373 : May cause damage to organs through prolonged or repeated exposure  
H401 : Toxic to aquatic life  
H411 : Toxic to aquatic life with long lasting effects

### Precautionary Statements

P202 : Do not handle until all safety precautions have been read and understood.  
P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 : Do not spray on an open flame or other ignition source.  
P251 : Pressurized container: Do not pierce or burn, even after use.  
P260 : Do not breathe spray.  
P264 : Wash hands thoroughly after handling.  
P271 : Use only outdoors or in a well-ventilated area.  
P272 : Contaminated work clothing must not be allowed out of the workplace  
P273 : Avoid release to the environment.  
P280 : Wear protective gloves and eye protection.  
P302+P352 : If on skin: Wash with plenty of water  
P304+P340 : If inhaled: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338 : If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P308+P313 : If exposed or concerned: Get medical advice/attention.  
P312 : Call physician if you feel unwell  
P314 : Get medical advice/attention if you feel unwell.  
P333+P313 : If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 : If eye irritation persists: Get medical advice/attention.  
P362+P364 : Take off contaminated clothing and wash it before reuse.  
P391 : Collect spillage.  
P403 : Store in a well-ventilated place.  
P410+P412 : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P501 : 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

30.69% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)  
38.05% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)  
21.68% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substance / Mixture

Substance / Mixture : Mixture

### 3.2 Composition

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Substance name	CAS Number	% wt*	Classification
4-Chlorobenzotrifluoride	98-56-6	10 - 30	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Propane	74-98-6	10 - 30	Flam. Gas 1, H220 Press. Gas (Diss.), H280
Acetone	67-64-1	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
N-Hexane	110-54-3	10 - 30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Barium Sulfate	7727-43-7	5 - 10	Aquatic Acute 3, H402
N-Butyl Acetate	123-86-4	1 - 5	Flam. Liq. 2, H225 STOT SE 3, H336 Aquatic Acute 3, H402
Methyl N-Propyl Ketone	107-87-9	1 - 5	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Carbon Black	1333-86-4	1 - 5	Carc. 2, H351
Methyl Ethyl Ketoxime	96-29-7	0.1 - 1	Flam. Liq. 4, H227 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351

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

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

## SECTION 4 - FIRST-AID MEASURES

### 4.1 Description of First-Aid Measures

<b>General Measures</b>	: If exposed or concerned: Get medical advice/attention.
<b>Inhalation</b>	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
<b>Skin Contact</b>	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
<b>Eye Contact</b>	: Rinse eyes with water as a precaution.
<b>Ingestion</b>	: Call a poison center or a doctor if you feel unwell.
<b>First-Aid Responder Protection</b>	: 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

<b>Symptoms of Exposure</b>	: Eye Irritation, Nose Irritation, Throat Irritation, Lassitude (Weakness), Muscle Ache, Dermatitis, Central Nervous System Depression, Confusion, Respiratory Irritation, Skin Irritation, Headache, Dizziness, Nausea, Narcosis, Upper Respiratory Tract Irritation, Drowsiness, Vomiting, Chills, Fever, Dry Throat, Cough, Blurred Vision, Malaise, Chest Tightness, Chemical Pneumonitis (Aspiration Liquid), Numbness, Mucous Membrane.
<b>Delayed Effects</b>	: No known delayed effects.
<b>Immediate Effects</b>	: No known immediate effects.
<b>Chronic Effects</b>	: Because of defatting properties, repeated skin contact can cause skin damage such as chap, dermatitis, inflammation and the formation of eczema.

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Target Organs : Blood, Central Nervous System, Eyes, Liver, Peripheral Nervous System, Respiratory System, Skin, Kidneys.

### 4.3 Indication of Immediate Medical Attention and Special Treatment

Notes to Physician : Treat symptomatically.  
Specific Treatments/Antidotes : No Information Available.  
Medical Conditions Aggravated : May aggravate personnel with pre-existing disorders associated with any of the Target Organs.

## 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

Hazardous Combustion Products : Decomposition products may include: oxides of carbon, smoke, vapors. See also Section 10.6.  
Specific Hazards During Firefighting : 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 an ignition source.

### 5.3 Special Protective Actions for Fire-Fighters

Firefighting Instructions : Use water spray to cool fire exposed aerosol containers, as contents can rupture violently from heat developed pressure.  
Protection during Firefighting : 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 Personnel : Use personal protection as recommended in Section 8. Observe precautions provided for non-emergency personnel above.

### 6.2 Environmental Precautions

Environmental 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

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### 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 2 Aerosol per NFPA 30B*

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control Parameters

#### Propane (74-98-6)

OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
NIOSH	US IDLH (ppm)	2100 ppm
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm
California	California PEL (TWA) (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
California	California PEL (TWA) (ppm)	1000 ppm

#### Acetone (67-64-1)

ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	250 ppm
ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	500 ppm
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	2400 mg/m <sup>3</sup>
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/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
California	California PEL (TWA) (ppm)	500 ppm
California	California PEL (STEL) (mg/m <sup>3</sup> )	1780 mg/m <sup>3</sup>
California	California PEL (STEL) (ppm)	750 ppm
California	California PEL (Ceiling) (ppm)	3000 ppm
Biological Exposure Index	Acetone in urine, End of shift (Ns)	25 mg/l

#### N-Hexane (110-54-3)

ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	50 ppm
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	500 ppm
NIOSH	US IDLH (ppm)	1100 ppm
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	180 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (ppm)	50 ppm
California	California PEL (TWA) (mg/m <sup>3</sup> )	180 mg/m <sup>3</sup>
California	California PEL (TWA) (ppm)	50 ppm
Biological Exposure Index	2,5-Hexanedion in urine (without hydrolysis), End of shift at end of workweek	0.4 mg/l

#### Methyl Ethyl Ketoxime (96-29-7)

AIHA	WEEL TWA (ppm)	10 ppm
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#### Methyl N-Propyl Ketone (107-87-9)

ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	200 ppm
ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	250 ppm
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	700 mg/m <sup>3</sup>

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Methyl N-Propyl Ketone (107-87-9)		
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
NIOSH	US IDLH (ppm)	1500 ppm
NIOSH	NIOSH REL (TWA) (ppm)	150 ppm

N-Butyl Acetate (123-86-4)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	150 ppm
ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	200 ppm
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
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/m <sup>3</sup> )	710 mg/m <sup>3</sup>
California	California PEL (TWA) (ppm)	150 ppm
California	California PEL (STEL) (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
California	California PEL (STEL) (ppm)	200 ppm

Carbon Black (1333-86-4)		
ACGIH	ACGIH TWA (ppm)	3 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup>
NIOSH	US IDLH (mg/m <sup>3</sup> )	1750 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup>
California	California PEL (TWA) (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup>

Barium Sulfate (7727-43-7)		
ACGIH	ACGIH TWA (ppm)	5 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (total dust)
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total dust)

## 8.2 Exposure Controls

- |  |  |
|--|--|
| <b>Engineering Measures</b>            | : 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. |
| <b>Personal Protective Equipment</b>   |  |
| <b>Eye / Face Protection</b>           | : 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.   |
| <b>Hand Protection</b>                 | : Chemical-resistant gloves, tested according to ASTM F903 - 17.   |
| <b>Remarks</b>                         | : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to the place of work.   |
| <b>Skin and Body Protection</b>        | : 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.   |
| <b>Respiratory Protection</b>          | : An approved respirator with an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed occupational exposure limits.   |
| <b>Filter type</b>                     | : Organic vapour type.   |
| <b>Compliance</b>                      | : If needed, compliance with OSHA standard 29 CFR 1910.134 is necessary.   |
| <b>Other Protective Equipment</b>      | : Safety showers and eye-wash stations should be available in the workplace near where the material will be used.  |
| <b>Environmental Exposure Controls</b> | : Avoid release to the environment.  |

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Properties			
Boiling Point	> 55.60 °C	Melting / Freezing Point	> -95.30 °C
Flash Point, Liquid	> -27.00 °C	Flash Point, Propellant	-104.40 °C
Explosive Limits	LEL: 0.60 UEL: 12.80 vol %	Autoignition Temperature, Liquid	> 225.00 °C
Flammability	Extremely Flammable Aerosol	Density	0.876 g/cm <sup>3</sup>
Molecular Weight	Not Available	Weight	7.310 lbs/gal

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Vapor Pressure	Not Available	pH	Not Available
Vapor Density	Not Available	Evaporation Rate (nBAC=1)	Not Available
Viscosity	Not Available	Partition Coefficient (Log Pow)	Not Available
Odor Threshold	Not Available	Refractive Index	Not Available
Physical State	Pressurized Product	Heat Of Combustion	10619.46 BTU/lb
Appearance / Color	Black	Water Solubility	Not Available
Odor	Paint-like	Decomposition Temperature	Not Available

### 9.2 Environmental Properties

Percent Volatile	74.90 % wt	VOC Regulatory	504.92 g/L (4.21 lbs/gal)
Percent VOC	34.06 % wt	VOC Actual	298.39 g/L (2.49 lbs/gal)
Percent HAP	0.41 % wt	HAP Content	3.59 g/L (0.03 lbs/gal)
Global Warming Potential	0.76 GWP	Maximum Incremental Reactivity	0.4860 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

Chemical Stability : This product is stable.

### 10.3 Possibility of Hazardous Reactions

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

### 10.4 Conditions to Avoid

Conditions to Avoid : Electrostatic Discharge, Other Ignition Sources, Heat, Flames, Sparks.

### 10.5 Incompatible Materials

Materials to Avoid : Strong Oxidizing Agents, Strong Reducing Agents, Bromine Pentafluoride, Strong Acids, Aluminum, Potassium t-Butoxide, Halogen Compounds, Bases, Hydrogen Peroxide, Magnesium, Chlorosulfuric Acid, Chlorine, Potassium Chlorate, Dinitrogen Tetroxide, Chlorine Dioxide.

### 10.6 Hazardous Decomposition Products

Thermal Decomposition : Oxides of carbon, Unstable peroxides, Aldehydes, Formaldehyde, Methanol, Acetic Acid.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects

#### Propane (CAS: 74-98-6 / EC: 200-827-9)

LC50 Inhalation (Rat) : 658 mg/l/4h (Lit.)

#### Acetone (CAS: 67-64-1 / EC: 200-662-2)

LD50 Oral (Rat) : 5800 mg/kg (Sigma-Aldrich)  
LD50 Dermal (Rabbit) : 20000 mg/kg (IUCLID)  
LC50 Inhalation (Rat) : 76 mg/l/4h (GESTIS Substance Database)

#### N-Hexane (CAS: 110-54-3 / EC: 203-777-6)

LD50 Oral (Rat) : 29700 mg/kg (RTECS)  
LD50 Dermal (Rabbit) : > 3350 mg/kg body weight (ChemInfo)  
LC50 Inhalation (Rat) : 38500 ppm/4h (ChemInfo)

#### 4-Chlorobenzotrifluoride (CAS: 98-56-6 / EC: 202-681-1)

LD50 Oral (Rat) : 13000 mg/kg (Hazardous Substances Data Bank)

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### 4-Chlorobenzotrifluoride (CAS: 98-56-6 / EC: 202-681-1)

LD50 Dermal (Rabbit)	3300 mg/kg (Sigma-Aldrich)
LC50 Inhalation (Rat)	33 mg/l/4h (Hazardous Substances Data Bank)

### Methyl Ethyl Ketoxime (CAS: 96-29-7 / EC: 202-496-6)

LD50 Oral (Rat)	> 930 mg/kg (RTECS)
LD50 Dermal (Rat)	> 2000 mg/kg (RTECS)
LD50 Dermal (Rabbit)	> 1000 mg/kg body weight (RTECS)
LC50 Inhalation (Rat)	20 mg/l/4h (Lit.)

### Methyl N-Propyl Ketone (CAS: 107-87-9 / EC: 203-528-1)

LD50 Oral (Rat)	3020 mg/kg (ChemInfo)
LD50 Dermal (Rabbit)	6500 mg/kg (RTECS)
LC50 Inhalation (Rat)	> 25.5 mg/l/4h (Sigma-Aldrich)
LC50 Inhalation (Rat)	2000 ppm/4h (ChemInfo)

### N-Butyl Acetate (CAS: 123-86-4 / EC: 204-658-1)

LD50 Oral (Rat)	13100 mg/kg (IUCLID)
LD50 Dermal (Rabbit)	> 14100 mg/kg (IUCLID)
LC50 Inhalation (Rat)	> 21 mg/l/4h (IUCLID)
LC50 Inhalation (Rat)	390 ppm/4h (RTECS)

### Carbon Black (CAS: 1333-86-4 / EC: 215-609-9)

LD50 Oral (Rat)	> 15400 mg/kg (RTECS)
LD50 Dermal (Rabbit)	> 3000 mg/kg (RTECS)
LC50 Inhalation (Rat)	27 mg/l/4h (ChemInfo)

### Barium Sulfate (CAS: 7727-43-7 / EC: 231-784-4)

LD50 Oral (Rat)	> 5000 mg/kg (Lit.)
-----------------	---------------------

<b>Routes Of Exposure</b>	: Eye Contact, Ingestion, Skin Contact, Inhalation.
<b>Delayed and Immediate Effects and Also Chronic Effects from Short and Long Term Exposure</b>	: See Section 4.2
<b>Skin Corrosion/Irritation</b>	: Causes skin irritation.
<b>Eye Damage/Irritation</b>	: Causes serious eye irritation.
<b>Respiratory or Skin Sensitization</b>	: May cause an allergic skin reaction.
<b>Germ Cell Mutagenicity</b>	: Not classified
<b>Reproductive Toxicity</b>	: Suspected of damaging fertility or the unborn child.
<b>STOT-Single Exposure</b>	: May cause respiratory irritation. May cause drowsiness or dizziness.
<b>STOT-Repeated Exposure</b>	: May cause damage to organs through prolonged or repeated exposure.
<b>Aspiration Hazard</b>	: Not classified
<b>Vaporizer</b>	: Aerosol
<b>Carcinogen Data</b>	: The following ingredients are listed as known or suspected carcinogens:

### Carbon Black (CAS: 1333-86-4 / EC: 215-609-9)

IARC group	2B - Possibly Carcinogenic to Humans
ACGIH Category	A3 - Confirmed animal carcinogen with unknown relevance to humans

## SECTION 12 - ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity and Ecological Properties

#### Propane (74-98-6)

Persistence and Degradability	Readily biodegradable in water. Not applicable (gas). Photodegradation in the air.
BCF Fish	9 - 25 (BCF)
Log Pow	2.28 (Calculated)
Bioaccumulative Potential	Low potential for bioaccumulation (Log Kow < 4).



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### Acetone (67-64-1)

LC50 Fish	5540 mg/l Rainbow Trout - 96hr
LC50 Fish	8300 mg/l Bluegill Sunfish - 96h
EC50 Daphnia	8800 mg/l Water Flea - 48hr
Persistence and Degradability	Biodegradability 90% / 28 days.
Biochemical Oxygen Demand	1.43 g O <sub>2</sub> /g substance
Chemical Oxygen Demand	1.92 g O <sub>2</sub> /g substance
Theoretical Oxygen Demand	2.2 g O <sub>2</sub> /g substance
BCF Fish	0.69
BCF Other Aquatic Organisms	3
Log Pow	-0.24

### n-Hexane (110-54-3)

LC50 Fish	2.5 mg/l Fathead Minnow - 96h
EC50 Daphnia	3878 mg/l Water Flea - 48hr
Theoretical Oxygen Demand	3.52 g O <sub>2</sub> /g substance
BCF Fish	501.187 (BCF; Other; Pimephales promelas)
Log Pow	3.9
Bioaccumulative Potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
Log Koc	2.17

### 4-Chlorobenzotrifluoride (98-56-6)

LC50 Fish	5.6 mg/l Bluegill Sunfish - 96h
LC50 Fish	13.5 mg/l Rainbow Trout - 24hr
EC50 Daphnia	3.68 mg/l (EC50; 48 h)
Persistence and Degradability	Biodegradability in water: no data available.
Log Pow	3.6
Bioaccumulative Potential	Low potential for bioaccumulation (Log Kow < 4).

### Methyl Ethyl Ketoxime (96-29-7)

BCF Fish	0.5-5.8,BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 42 days; Cyprinus carpio; Fresh water; Experimental value
Log Pow	0.63 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Bioaccumulative Potential	Low potential for bioaccumulation (BCF < 500).

### Methyl n-Propyl Ketone (107-87-9)

LC50 Fish	1240 mg/l Fathead Minnow - 96h
EC50 Daphnia	> 110 mg/l Water Flea - 48hr
EC50 Other Aquatic Organisms	> 150 mg/l Green Algae - 72hr
Persistence and Degradability	Biodegradability 70% / 28 days.
BCF Other Aquatic Organisms	3
Log Pow	0.91 (Test data)
Bioaccumulative Potential	Low potential for bioaccumulation (Log Kow < 4).
Log Koc	Koc, 74; Estimated value; log Koc; 1.87; Estimated value

### n-Butyl Acetate (123-86-4)

LC50 Fish	62 mg/l Golden Orfe - 96hr
LC50 Fish	18 mg/l Fathead Minnow - 96h
EC50 Daphnia	72.8 mg/l Water Flea - 24hr
EC50 Other Aquatic Organisms	675 mg/l Green Algae - 72hr
EC50 Other Aquatic Organisms	959 mg/l Bacteria - 18hr
Persistence and Degradability	Biodegradability 88% / 28 days.
Biochemical Oxygen Demand	520 mg/g
Chemical Oxygen Demand	2320 mg/g
Theoretical Oxygen Demand	2207 mg/g
Log Pow	1.804
Log Koc	2.35

### Carbon Black (1333-86-4)

LC50 Fish	> 1000 mg/l Zebra Fish - 96hr
EC50 Daphnia	> 5600 mg/l Water Flea - 24hr
EC50 Other Aquatic Organisms	> 10000 mg/l Green Algae - 72hr

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### Carbon Black (1333-86-4)

Theoretical Oxygen Demand	Not applicable
Log Pow	1.09
Bioaccumulative Potential	Not bioaccumulative.

### Barium Sulfate (7727-43-7)


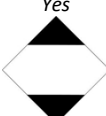

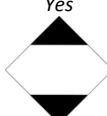
EC50 Daphnia	32 mg/l Water Flea - 48hr
Biochemical Oxygen Demand	Not applicable
Chemical Oxygen Demand	Not applicable
Theoretical Oxygen Demand	Not applicable
BCF Fish	68.4 (BCF; <i>Lepomis macrochirus</i> )
Bioaccumulative Potential	Low potential for bioaccumulation (BCF < 500).

## 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

14.1 UN Number	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
UN Number	UN1950	UN1950	UN1950
14.2 UN Proper Shipping Name	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
UN Proper Shipping Name	Aerosols, Limited Quantity	Aerosols, Flammable, Limited Quantity	Aerosols, Limited Quantity
14.3 Transport Hazard Class(es)	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
Transport Hazard Class(es)	2.1	2.1	2.1
Labels	None	2.1 - Flammable gas 	None
Limited Quantity	Yes 	Yes 	Yes 
EmS Code	Not Applicable	Not Applicable	F-D, S-U
14.4 Packing Group	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
Packing Group	None	None	None
14.5 Environmental Hazards	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
Marine Pollutant	No	No	No

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### 14.6 Special Precautions

Precautions : None Identified

### 14.7 Transport in Bulk

Remarks : Not applicable for product as supplied

## SECTION 15 - REGULATORY INFORMATION

### 15.1 Federal Regulations

**SARA Section 313** : 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.

n-Hexane	CAS-No. 110-54-3	10 - 30%
1,2,4-Trimethyl Benzene	CAS-No. 95-63-6	< 1%
Xylene	CAS-No. 1330-20-7	< 1%
Methyl Isobutyl Ketone	CAS-No. 108-10-1	< 1%
Ethyl Benzene	CAS-No. 100-41-4	< 1%

**TSCA Section 12(b)** : This product or mixture is not known to contain a chemical or chemicals subject to the export notification requirements of section 12(b) of the Toxic Substances Control Act (TSCA) and 40 CFR Part 707, subpart D

**CERCLA Reportable Quantity** : Chemical(s) subject to reporting requirements of Section 102 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) if released to the environment at or above the reportable quantity

Acetone	CAS-No. 67-64-1	5000 lb
n-Hexane	CAS-No. 110-54-3	5000 lb
Xylene	CAS-No. 1330-20-7	100 lb
Methyl Isobutyl Ketone	CAS-No. 108-10-1	5000 lb
Ethyl Benzene	CAS-No. 100-41-4	1000 lb

### 15.2 State Regulations

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

Quartz (14808-60-7)	Cancer	Yes	0.0408 %
Methyl Isobutyl Ketone (108-10-1)	Cancer	Yes	0.0898 %
Ethyl Benzene (100-41-4)	Cancer	Yes	0.0599 %
Carbon Black (1333-86-4)	Cancer	Yes	1.125 %
Methyl Isobutyl Ketone (108-10-1)	Developmental Toxicity	Yes	0.0898 %
n-Hexane (110-54-3)	Reproductive Toxicity, Male	Yes	10.0 %
Ethyl Benzene (100-41-4)	No significance risk level (NSRL)	54	

**State Right-to-Know Lists** : The following chemical(s) appear on one or more state RTK (Right to Know) lists as indicated

Propane (74-98-6)	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
n-Hexane (110-54-3)	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
Quartz (14808-60-7)	U.S. - New Jersey - Right to Know Hazardous Substance List
Nonane (111-84-2)	U.S. - New Jersey - Right to Know Hazardous Substance List
2-Ethylhexanoic Acid (149-57-5)	U.S. - New Jersey - Right to Know Hazardous Substance List
1,2,4-Trimethyl Benzene (95-63-6)	U.S. - New Jersey - Right to Know Hazardous Substance List
Epoxidized Soybean Oil (8013-07-8)	U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
Precipitated Silica (112926-00-8)	U.S. - New Jersey - Right to Know Hazardous Substance List

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Xylene (1330-20-7)	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
Methyl Isobutyl Ketone (108-10-1)	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
Ethyl Benzene (100-41-4)	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
Methyl n-Propyl Ketone (107-87-9)	U.S. - New Jersey - Right to Know Hazardous Substance List
Carbon Black (1333-86-4)	U.S. - New Jersey - Right to Know Hazardous Substance List
Zinc Oxide (1314-13-2)	U.S. - New Jersey - Right to Know Hazardous Substance List
Barium Sulfate (7727-43-7)	U.S. - New Jersey - Right to Know Hazardous Substance List

### SECTION 16 - OTHER INFORMATION

#### Indication of changes

Section	Changed item	Change
1	Supersedes	Modified
1	Revision date	Modified
1	Name	Modified
2.2	Precautionary statements (GHS US)	Modified
3	Composition/Information on ingredients	Modified
9	Specific gravity / density	Modified
9	Relative vapor density at 20 °C	Added

#### Full Text of H-Statements

H Code	H Phrase
H220	Extremely flammable gas
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H227	Combustible liquid
H280	Contains gas under pressure; may explode if heated
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects

#### Disclaimer of Liability

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