Internal Frame Coating 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 : *Internal Frame Coating Black Finish*

Supplier Product Numbers : *15275Z*

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	:	*The Easthill Group, Inc./The Eastwood Company*
Address	:	*263 Shoemaker Road, Pottstown, PA 19464 - United States*
Phone Number	:	*800-343-9353*
Fax Number	:	
Email	:	*www.eastwood.com*
Website	:	

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

Flam. Aerosol 1	*H222*	*Physical Hazards*	*Flammable aerosol Category 1*
Press. Gas (Comp.)	*H280*	*Physical Hazards*	*Gases under pressure Compressed gas*
Eye Irrit. 2	*H319*	*Health Hazards*	*Serious eye damage/eye irritation Category 2*
Carc. 2	*H351*	*Health Hazards*	*Carcinogenicity Category 2*
Repr. 2	*H361*	*Health Hazards*	*Reproductive toxicity Category 2*
Stot Se 3	*H336*	*Health Hazards*	*Specific target organ toxicity (single exposure) Category 3*
Stot Re 2	*H373*	*Health Hazards*	*Specific target organ toxicity (repeated exposure) Category 2*
Aquatic Acute 3	*H402*	*Environmental Hazards*	*Hazardous to the aquatic environment - Acute Hazard Category 3*
Aquatic Chronic 3	*H412*	*Environmental Hazards*	*Hazardous to the aquatic environment - Chronic Hazard Category 3*

2.2 Label Elements

Hazard Pictograms

GHS02 *GHS04* *GHS07* *GHS08*

Signal Word ***Danger***

Hazard Statements

H222 : *Extremely flammable aerosol*
H280 : *Contains gas under pressure; may explode if heated*
H319 : *Causes serious eye 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*
	H402	: *Harmful to aquatic life*
	H412	: *Harmful 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/sparks/open flames/hot surfaces. - 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.*
	P273	: *Avoid release to the environment.*
	P280	: *Wear protective gloves and eye protection.*
	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.*
	P314	: *Get medical advice/attention if you feel unwell.*
	P337+P313	: *If eye irritation persists: Get medical advice/attention.*
	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

56.81% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
56.81% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
26.81% 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

Substance name	CAS Number	% wt*	Classification
Dimethyl Ether	*115-10-6*	*30 - 60*	*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*	*1 - 5*	*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*
Light Aromatic Solvent Naphtha	*64742-95-6*	*1 - 5*	*Flam. Liq. 3, H226* *Asp. Tox. 1, H304* *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*

Substance name	CAS Number	% wt*	Classification
Toluene	*108-88-3*	*1 - 5*	*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*
Methyl Acetate	*79-20-9*	*1 - 5*	*Flam. Liq. 2, H225* *Eye Irrit. 2A, H319* *STOT SE 3, H336*
4-Chlorobenzotrifluoride	*98-56-6*	*1 - 5*	*Flam. Liq. 3, H226* *Skin Irrit. 2, H315* *Eye Irrit. 2A, H319* *STOT SE 3, H335* *Aquatic Acute 2, H401* *Aquatic Chronic 2, H411*
Dimethyl Carbonate	*616-38-6*	*1 - 5*	*Flam. Liq. 2, H225*
Carbon Black	*1333-86-4*	*0.1 - 1*	*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

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

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

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

Eye Contact : *Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.*

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

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

Symptoms of Exposure : *Eye Irritation, Nose Irritation, Throat Irritation, Lassitude (Weakness), Dermatitis, Central Nervous System Depression, Confusion, Resipratory Irritation, Skin Irritation, Headache, Dizziness, Nausea, Narcosis, Drowsiness, Vomiting, Optical Nerve Damage, Cough, Chest Tightness, Chemical Pneumonitis (Aspiration Liquid), Numbness, Mucous Membrane.*

Delayed Effects : *No known delayed effects.*

Immediate Effects : *No known immediate effects.*

Chronic Effects : *Because of defatting properties, repeated skin contact can cause skin damage such as chap, dermatitis, inflammation and the formation of eczema.*

Target Organs : *Central Nervous System, Eyes, Liver, Peripheral Nervous System, Reproductive 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

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

Dimethyl Ether (115-10-6)		
AIHA	*WEEL TWA (ppm)*	*1000 ppm*
Manufacturer Recommended	*Recommended PEL (TWA) (ppm)*	*1000 ppm (Dupont AEL)*

N-Hexane (110-54-3)		
ACGIH	*ACGIH TWA (mg/m³)*	*50 ppm*
OSHA	*OSHA PEL (TWA) (mg/m³)*	*1800 mg/m³*
OSHA	*OSHA PEL (TWA) (ppm)*	*500 ppm*
NIOSH	*US IDLH (ppm)*	*1100 ppm*
NIOSH	*NIOSH REL (TWA) (mg/m³)*	*180 mg/m³*
NIOSH	*NIOSH REL (TWA) (ppm)*	*50 ppm*
California	*California PEL (TWA) (mg/m3)*	*180 mg/m³*
California	*California PEL (TWA) (ppm)*	*50 ppm*
Biological Exposure Index	*2,5-Hexanedion in urine (without hydrolosis), End of shift at end of workweek*	*0.4 mg/l*

Acetone (67-64-1)		
ACGIH	*ACGIH TWA (mg/m³)*	*250 ppm*
ACGIH	*ACGIH Ceiling (mg/m³)*	*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*
California	*California PEL (STEL) (mg/m3)*	*1780 mg/m³*
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*

Toluene (108-88-3)		
ACGIH	*ACGIH TWA (mg/m³)*	*20 ppm*
ACGIH	*ACGIH Ceiling (mg/m³)*	*150 ppm*
OSHA	*OSHA PEL (TWA) (ppm)*	*200 ppm*
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*
Biological Exposure Index	*Toluene in blood, Prior to last shift of workweek*	*0.02 mg/l*
Biological Exposure Index	*Toluene in urine, End of shift*	*0.03 mg/l*
Biological Exposure Index	*o-Cresol in urine (with hydrolysis), End of shift (B)*	*0.3 mg/g creatinine*

Methyl N-Propyl Ketone (107-87-9)		
ACGIH	*ACGIH TWA (mg/m³)*	*200 ppm*
ACGIH	*ACGIH Ceiling (mg/m³)*	*250 ppm*
OSHA	*OSHA PEL (TWA) (mg/m³)*	*700 mg/m³*
OSHA	*OSHA PEL (TWA) (ppm)*	*200 ppm*
NIOSH	*US IDLH (ppm)*	*1500 ppm*
NIOSH	*NIOSH REL (TWA) (ppm)*	*150 ppm*

Methyl Acetate (79-20-9)		
ACGIH	*ACGIH TWA (mg/m³)*	*200 ppm*
ACGIH	*ACGIH Ceiling (mg/m³)*	*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*

Methyl Acetate (79-20-9)		
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*

Carbon Black (1333-86-4)		
ACGIH	*ACGIH TWA (ppm)*	*3 mg/m³*
OSHA	*OSHA PEL (TWA) (mg/m³)*	*3.5 mg/m³*
NIOSH	*US IDLH (mg/m³)*	*1750 mg/m³*
NIOSH	*NIOSH REL (TWA) (mg/m³)*	*3.5 mg/m³*
California	*California PEL (TWA) (mg/m3)*	*3.5 mg/m³*

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.*

Personal Protective Equipment

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.*

Hand Protection : *Chemical-resistant gloves, tested according to ASTM F903 - 17.*

Remarks : *Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to the place of work.*

Skin and Body 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.*

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.*

Compliance : *If needed, compliance with OSHA standard 29 CFR 1910.134 is necessary.*

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

Environmental Exposure Controls : *Avoid release to the environment.*

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Properties

Boiling Point	*> 55.00 °C*	Melting / Freezing Point	*> -114.00 °C*
Flash Point, Liquid	*> -27.00 °C*	Flash Point, Propellant	*-42.00 °C*
Explosive Limits	*LEL: 0.80 UEL: 24.50 vol %*	Autoignition Temperature, Liquid	*225.00 °C*
Flammability	*Extremely Flammable Aerosol*	Density	*0.886 g/cm³*
Molecular Weight	*Not Available*	Weight	*7.394 lbs/gal*
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	*8830.18 BTU/lb*
Appearance / Color	*Black*	Water Solubility	*Not Available*
Odor	*Paint-like*	Decomposition Temperature	*Not Available*

9.2 Environmental Properties

Percent Volatile	*71.93 % wt*	VOC Regulatory	*541.06 g/L (4.52 lbs/gal)*
Percent VOC	*44.07 % wt*	VOC Actual	*390.42 g/L (3.26 lbs/gal)*
Percent HAP	*3.39 % wt*	HAP Content	*30.04 g/L (0.25 lbs/gal)*
Global Warming Potential	*0.48 GWP*	Maximum Incremental Reactivity	*0.8870 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, Temperatures above 140°F (60°C), Hot Surfaces, Heat, Flames, Sparks.*

10.5 Incompatible Materials

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

10.6 Hazardous Decomposition Products

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

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Dimethyl Ether (CAS: 115-10-6 / EC: 204-065-8)	
LC50 Inhalation (Rat)	*164000 ppm/4h (RTECS)*

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)*

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)*

4-Chlorobenzotrifluoride (CAS: 98-56-6 / EC: 202-681-1)	
LD50 Oral (Rat)	*13000 mg/kg (Hazardous Substances Data Bank)*
LD50 Dermal (Rabbit)	*3300 mg/kg (Sigma-Aldrich)*
LC50 Inhalation (Rat)	*33 mg/l/4h (Hazardous Substances Data Bank)*

Light Aromatic Solvent Naphtha (CAS: 64742-95-6 / EC: 265-199-0)	
LD50 Oral (Rat)	*8400 mg/kg (RTECS)*
LD50 Dermal (Rabbit)	*> 3160 mg/kg (ChemInfo)*
LC50 Inhalation (Rat)	*3670 ppm/4h (Lit.)*

Toluene (CAS: 108-88-3 / EC: 203-625-9)	
LD50 Oral (Rat)	*> 2000 mg/kg (Lit.)*
LD50 Dermal (Rabbit)	*12124 mg/kg (IUCLID)*
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)*

Methyl N-Propyl Ketone (CAS: 107-87-9 / EC: 203-528-1)	
LC50 Inhalation (Rat)	*2000 ppm/4h (ChemInfo)*

Methyl Acetate (CAS: 79-20-9 / EC: 201-185-2)	
LD50 Oral (Rat)	*6970 mg/kg (Lit.)*
LD50 Dermal (Rabbit)	*> 5000 mg/kg (RTECS)*
LC50 Inhalation (Rat)	*> 49.28 mg/l/4h (External SDS)*
LC50 Inhalation (Rat)	*16000 - 32000 (ChemInfo)*

Dimethyl Carbonate (CAS: 616-38-6 / EC: 210-478-4)	
LD50 Oral (Rat)	*13000 mg/kg (RTECS)*
LD50 Dermal (Rabbit)	*> 5000 mg/kg (RTECS)*
LC50 Inhalation (Rat)	*> 140 mg/l/4h (IUCLID)*

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)*

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

Delayed and Immediate Effects and Also Chronic Effects from Short and Long Term Exposure : *See Section 4.2*

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*

Vaporizer : *Aerosol*

Carcinogen Data : *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

Dimethyl Ether (115-10-6)	
Persistence and Degradibility	*Biodegradability 7% / 28 days.*
Log Pow	*0.1 (Experimental value; 0.07; QSAR; KOWWIN; 25 °C)*
Bioacculative Potential	*Low potential for bioaccumulation (Log Kow < 4).*

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_2/g substance*
BCF Fish	*501.187 (BCF; Other; Pimephales promelas)*
Log Pow	*3.9*
Bioacculative Potential	*Potential for bioaccumulation (500 ≤ BCF ≤ 5000).*
Log Koc	*2.17*

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 Degradibility	*Biodegradability 90% / 28 days.*

Acetone (67-64-1)	
Biochemical Oxygen Demand	*1.43 g O_2/g substance*
Chemical Oxygen Demand	*1.92 g O_2/g substance*
Theoretical Oxygen Demand	*2.2 g O_2/g substance*
BCF Fish	*0.69*
BCF Other Aquatic Organisms	*3*
Log Pow	*-0.24*

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 Degradibility	*Biodegradability in water: no data available.*
Log Pow	*3.6*
Bioacculative Potential	*Low potential for bioaccumulation (Log Kow < 4).*

Light Aromatic Solvent Naphtha (64742-95-6)	
LC50 Fish	*18 mg/l (LC50)*
EC50 Daphnia	*21 mg/l (EC50)*
Persistence and Degradibility	*Readily biodegradable in water.*
Log Pow	*> 3*

Toluene (108-88-3)	
LC50 Fish	*5.8 mg/l Rainbow Trout - 96hr*
LC50 Other Aquatic Organisms	*10 mg/l Green Algae - 72hr*
EC50 Daphnia	*6 mg/l Water Flea - 48hr*
Persistence and Degradibility	*Readily biodegradable in water. Biodegradable in the soil. Low potential for absorption in soil.*
Biochemical Oxygen Demand	*2.15 g O_2/g substance*
Chemical Oxygen Demand	*2.52 g O_2/g substance*
Theoretical Oxygen Demand	*3.13 g O_2/g substance*
Biodegration	*86 % 28 Days*
Log Pow	*2.73 (Experimental Value)*
Bioacculative Potential	*Low potential for bioaccumulation (BCF < 500).*
Log Koc	*2.15*

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 Degradibility	*Biodegradability 70% / 28 days.*
BCF Other Aquatic Organisms	*3*
Log Pow	*0.91 (Test data)*
Bioacculative Potential	*Low potential for bioaccumulation (Log Kow < 4).*
Log Koc	*Koc,74; Estimated value; log Koc; 1.87; Estimated value*

Methyl Acetate (79-20-9)	
LC50 Fish	*250 - 350 mg/l Zebra Fish - 96hr*
EC50 Daphnia	*1026.7 mg/l Water Flea - 48hr*
EC50 Other Aquatic Organisms	*> 120 mg/l Green Algae - 72hr*
EC50 Other Aquatic Organisms	*6100 mg/l Bacteria - 30min*
Persistence and Degradibility	*Readily biodegradable in water. Inherently biodegradable. Highly mobile in soil.*
Chemical Oxygen Demand	*1511.8 mg/g*
Theoretical Oxygen Demand	*1510 mg/g*
Biodegration	*70 % 28 Days*
BCF Fish	*< 1 (BCF)*
Log Pow	*0.18*
Bioacculative Potential	*Low potential for bioaccumulation (BCF < 500).*
Log Koc	*0.68*

Dimethyl Carbonate (616-38-6)	
LC50 Fish	*> 100 mg/l Zebra Fish - 96hr*
LC50 Fish	*1000 mg/l Golden Orfe - 96hr*
EC50 Daphnia	*> 100 mg/l Water Flea - 48hr*

Dimethyl Carbonate (616-38-6)	
EC50 Other Aquatic Organisms	*> 100 mg/l Green Algae - 72hr*
Persistence and Degradibility	*Biodegradability 86% / 28 days.*
Chemical Oxygen Demand	*756 mg/g*
Log Pow	*0.23*
Bioacculative Potential	*Not bioaccumulative.*
Log Koc	*0.917*

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*
Theoretical Oxygen Demand	*Not applicable*
Log Pow	*1.09*
Bioacculative Potential	*Not bioaccumulative.*

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.*

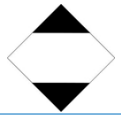
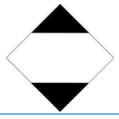
Landfill Precautions : *Not Available.*

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*

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*	*1 - 5%*
Toluene	*CAS-No. 108-88-3*	*1 - 5%*
Xylene	*CAS-No. 1330-20-7*	*< 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*

n-Hexane	*CAS-No. 110-54-3*	*5000 lb*
Acetone	*CAS-No. 67-64-1*	*5000 lb*
Toluene	*CAS-No. 108-88-3*	*1000 lb*
Xylene	*CAS-No. 1330-20-7*	*100 lb*

SARA Section 311/312 Hazard Classes : *Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard.*

TSCA Inventory (United States) : *All chemical substances in this product are either listed on the Toxic Substances Control Act (TSCA) Inventory or are in compliance with a TSCA Inventory exemption.*

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.*

Carbon Black (1333-86-4)	*Cancer*	*Yes*	*0.63 %*
Toluene (108-88-3)	*Developmental Toxicity*	*Yes*	*2.9114 %*
n-Hexane (110-54-3)	*Reproductive Toxicity, Male*	*Yes*	*3.87 %*
Toluene (108-88-3)	*No significance risk level (NSRL)*	*7000 µg/day*	

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

Dimethyl Ether (115-10-6)	*U.S. - New Jersey - Right to Know Hazardous Substance List*
n-Hexane (110-54-3)	*U.S. - New Jersey - Right to Know Hazardous Substance List* *U.S. - Pennsylvania - RTK (Right to Know) 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*
Toluene (108-88-3)	*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*
Methyl Acetate (79-20-9)	*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*
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*
Ethanol (64-17-5)	*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*
Talc (14807-96-6)	*U.S. - New Jersey - Right to Know Hazardous Substance List*

SECTION 16 - OTHER INFORMATION

Indication of changes :

Section	*Changed item*	*Change*

Full Text of H-Statements :

H Code	*H Phrase*
H220	*Extremely flammable gas*
H225	*Highly flammable liquid and vapour*
H226	*Flammable liquid and vapour*
H280	*Contains gas under pressure; may explode if heated*
H302	*Harmful if swallowed*
H304	*May be fatal if swallowed and enters airways*
H315	*Causes skin irritation*
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*
H402	*Harmful to aquatic life*
H411	*Toxic to aquatic life with long lasting effects*

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