SECTION 1 - IDENTIFICATION

1.1 Product Identifier

Product Name : *Micro Moly*
Manufacturer Product Number : *9005A*

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 : *Dry film lubricant*
Restrictions on Use : *None Identified*

1.4 Supplier Details

		Manufacturer Details	Supplier Details
Company Name	:	*Chem-Pak Inc*	*Chem-Pak Inc*
Address	:	*242 Corning Way, Martinsburg, WV 25405 - United States*	*242 Corning Way, Martinsburg, WV 25405 - United States*
Phone Number	:	*304-262-1880*	*304-262-1880*
Fax Number	:	*304-262-9643*	*304-262-9643*
Email	:	*msds@chem-pak.com*	*msds@chem-pak.com*
Website	:	*http://www.chem-pak.com*	*http://www.chem-pak.com*

1.5 24 hr Emergency Phone Number

Emergency Number : *800-255-3924*
Chem-Tel

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*
Skin Irrit. 2	*H315*	*Health Hazards*	*Skin corrosion/irritation Category 2*
Eye Irrit. 2a	*H319*	*Health Hazards*	*Serious eye damage/eye irritation Category 2A*
Skin Sens. 1	*H317*	*Health Hazards*	*Skin sensitization, Category 1*
Repr. 2	*H361*	*Health Hazards*	*Reproductive toxicity Category 2*
Stot Se 3	*H336*	*Health Hazards*	*Specific target organ toxicity (single exposure) Category 3, Narcosis*
Stot Re 2	*H373*	*Health Hazards*	*Specific target organ toxicity (repeated exposure) Category 2*
Asp. Tox. 1	*H304*	*Health Hazards*	*Aspiration hazard Category 1*
Aquatic Acute 2	*H401*	*Environmental Hazards*	*Hazardous to the aquatic environment - Acute Hazard Category 2*
Aquatic Chronic 2	*H411*	*Environmental Hazards*	*Hazardous to the aquatic environment - Chronic Hazard Category 2*

2.2 Label Elements

Hazard Pictograms

GHS02 *GHS04* *GHS07* *GHS08* *GHS09*

Signal Word ***Danger***

Hazard Statements
H222 : *Extremely flammable aerosol*
H280 : *Contains gas under pressure; may explode if heated*

	H304	:	*May be fatal if swallowed and enters airways*
	H315	:	*Causes skin irritation*
	H317	:	*May cause an allergic skin reaction*
	H319	:	*Causes serious eye irritation*
	H336	:	*May cause drowsiness or dizziness*
	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.*
	P301+P310	:	*If swallowed: Immediately call POISON CENTER*
	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.*
	P314	:	*Get medical advice/attention if you feel unwell.*
	P331	:	*Do NOT induce vomiting.*
	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

50% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
56% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance / Mixture

Substance / Mixture : *Mixture*

3.2 Composition

Substance name	CAS Number	% wt*	Classification
N-Butane	*106-97-8*	*10 - 30*	*Flam. Gas 1, H220* *Press. Gas (Diss.), H280*
Hydrotreated Light Petroleum Naphtha	*64742-49-0*	*10 - 30*	*Flam. Liq. 2, H225* *Asp. Tox. 1, H304* *Aquatic Acute 3, H402* *Aquatic Chronic 3, H412*

Substance name	CAS Number	% wt*	Classification
Isobutane	*75-28-5*	*10 - 30*	*Flam. Gas 1, H220* *Press. Gas (Diss.), H280*
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*
Propane	*74-98-6*	*10 - 30*	*Flam. Gas 1, H220* *Press. Gas (Diss.), H280*
Toluene	*108-88-3*	*5 - 10*	*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*
Cyclohexane	*110-82-7*	*1 - 5*	*Flam. Liq. 2, H225* *Skin Irrit. 2, H315* *STOT SE 3, H336* *Asp. Tox. 1, H304* *Aquatic Acute 1, H400* *Aquatic Chronic 1, H410*
Tetrabutyl Titanate	*5593-70-4*	*1 - 5*	*Flam. Liq. 3, H226* *Skin Irrit. 2, H315* *Eye Dam. 1, H318* *STOT SE 3, H335* *STOT SE 3, H336*
Secondary Butyl Alcohol	*78-92-2*	*1 - 5*	*Flam. Liq. 3, H226* *Eye Irrit. 2A, H319* *STOT SE 3, H336* *STOT SE 3, H335*
Boron, Trifluoro(Tetrahydrofurane) Polymer	*753501-40-5*	*0.1 - 1*	*Skin Sens. 1, H317*

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 : *Call a physician immediately.*

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

Skin Contact : *Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.*

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 : *Do NOT induce vomiting. Call a physician immediately.*

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, Confusion, Skin Irritation, Headache, Dizziness, Nausea, Narcosis, Drowsiness, Chemical Pneumonitis (Aspiration Liquid), Numbness, Mucous Membrane.*

Delayed Effects : *No known delayed effects.*

Immediate Effects : *No known immediate effects.*

Chronic Effects : *No known chronic effects.*

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 3 Aerosol per NFPA 30B*

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

N-Butane (106-97-8)		
ACGIH	*ACGIH TWA (mg/m³)*	*1000 ppm*
ACGIH	*ACGIH Ceiling (mg/m³)*	*1000 ppm*
OSHA	*OSHA PEL (TWA) (ppm)*	*800 ppm*
NIOSH	*NIOSH REL (TWA) (mg/m³)*	*1900*
NIOSH	*NIOSH REL (TWA) (ppm)*	*800 ppm*
California	*California PEL (TWA) (mg/m3)*	*1900 mg/m³*
California	*California PEL (TWA) (ppm)*	*800 ppm*

Propane (74-98-6)		
OSHA	*OSHA PEL (TWA) (mg/m³)*	*1800 mg/m³*
OSHA	*OSHA PEL (TWA) (ppm)*	*1000 ppm*
NIOSH	*US IDLH (ppm)*	*2100 ppm*
NIOSH	*NIOSH REL (TWA) (mg/m³)*	*1800 mg/m³*
NIOSH	*NIOSH REL (TWA) (ppm)*	*1000 ppm*
California	*California PEL (TWA) (mg/m3)*	*1800 mg/m³*
California	*California PEL (TWA) (ppm)*	*1000 ppm*

Isobutane (75-28-5)		
ACGIH	*ACGIH TWA (mg/m³)*	*1000 ppm*
NIOSH	*NIOSH REL (TWA) (mg/m³)*	*1900 mg/m³*
NIOSH	*NIOSH REL (TWA) (ppm)*	*800 ppm*

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*

Secondary Butyl Alcohol (78-92-2)		
ACGIH	*ACGIH TWA (mg/m³)*	*100 ppm*
OSHA	*OSHA PEL (TWA) (mg/m³)*	*450 mg/m³*
OSHA	*OSHA PEL (TWA) (ppm)*	*150 ppm*
NIOSH	*US IDLH (ppm)*	*2000 ppm*
NIOSH	*NIOSH REL (TWA) (mg/m³)*	*0 mg/m³*
NIOSH	*NIOSH REL (TWA) (ppm)*	*100 ppm*
NIOSH	*NIOSH REL (STEL) (ppm)*	*150 ppm*
California	*California PEL (TWA) (mg/m3)*	*305 mg/m³*
California	*California PEL (TWA) (ppm)*	*100 ppm*

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*

Cyclohexane (110-82-7)		
ACGIH	*ACGIH TWA (mg/m³)*	*100 ppm (Cyclohexane; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)*
OSHA	*OSHA PEL (TWA) (mg/m³)*	*1050 mg/m³*
OSHA	*OSHA PEL (TWA) (ppm)*	*300 ppm*
NIOSH	*US IDLH (ppm)*	*1300 ppm*
NIOSH	*NIOSH REL (TWA) (ppm)*	*300 ppm*
California	*California PEL (TWA) (mg/m3)*	*1050 mg/m³*
California	*California PEL (TWA) (ppm)*	*300 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.*

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	*> 63.00 °C*	Melting / Freezing Point	*> -142.00 °C*
Flash Point, Liquid	*> -17.00 °C*	Flash Point, Propellant	*-104.44 °C*

Explosive Limits	*LEL: 1.00 UEL: 12.00 vol %*	Autoignition Temperature, Liquid	*> 232.00 °C*
Flammability	*Extremely Flammable Aerosol*	Density	*0.659 g/cm³*
Molecular Weight	*Not Available*	Weight	*5.499 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	*17463.21 BTU/lb*
Appearance / Color	*Black*	Water Solubility	*Not Available*
Odor	*Paint-like*	Decomposition Temperature	*Not Available*

9.2 Environmental Properties

Percent Volatile	*90.82 % wt*	VOC Regulatory	*598.65 g/L (5.00 lbs/gal)*
Percent VOC	*90.82 % wt*	VOC Actual	*598.49 g/L (4.99 lbs/gal)*
Percent HAP	*5.17 % wt*	HAP Content	*34.07 g/L (0.28 lbs/gal)*
Global Warming Potential	*1.67 GWP*	Maximum Incremental Reactivity	*1.2580 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 Acids, Halogen Compounds, Aluminum Chloride, Hydrogen Peroxide, Magnesium, Perchloric Acid, Chlorosulfuric Acid, Chlorine, Potassium Chlorate, Dinitrogen Tetroxide, Chlorine Dioxide, Organic Peroxides.*

10.6 Hazardous Decomposition Products

Thermal Decomposition : *Oxides of carbon, Oxides of sulfur, Aldehydes, Oxides of Molybdenum, Hydrogen Sulfide.*

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

N-Butane (CAS: 106-97-8 / EC: 203-448-7)	
LC50 Inhalation (Rat)	*658 mg/l/4h (ChemInfo)*
LC50 Inhalation (Rat)	*276000 ppm/4h (ChemInfo)*

Propane (CAS: 74-98-6 / EC: 200-827-9)	
LC50 Inhalation (Rat)	*658 mg/l/4h (Lit.)*

Isobutane (CAS: 75-28-5 / EC: 200-857-2)	
LC50 Inhalation (Rat)	*368000 ppm/4h (ChemInfo)*

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.)*

Secondary Butyl Alcohol (CAS: 78-92-2 / EC: 201-158-5)	
LD50 Oral (Rat)	*2193 mg/kg (RTECS)*
LD50 Dermal (Rat)	*> 2000 mg/kg (RTECS)*

Tetrabutyl Titanate (CAS: 5593-70-4 / EC: 227-006-8)	
LD50 Oral (Rat)	*3122 mg/kg (RTECS)*
LD50 Dermal (Rabbit)	*5300 mg/kg (External SDS)*
LC50 Inhalation (Rat)	*20100 mg/l/4h (External SDS)*

Boron, Trifluoro(Tetrahydrofurane) Polymer (CAS: 753501-40-5 / EC:)	
LD50 Oral (Rat)	*> 2000 mg/kg (External SDS)*

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)*

Hydrotreated Light Petroleum Naphtha (CAS: 64742-49-0 / EC: 265-151-9)	
LD50 Oral (Rat)	*> 5800 mg/kg (External SDS)*
LD50 Dermal (Rabbit)	*> 2920 mg/kg (External SDS)*
LC50 Inhalation (Rat)	*> 23 mg/l/4h (External SDS)*

Cyclohexane (CAS: 110-82-7 / EC: 203-806-2)	
LD50 Oral (Rat)	*> 12705 mg/kg (Sigma-Aldrich)*
LD50 Dermal (Rabbit)	*> 2000 mg/kg body weight (RTECS)*
LC50 Inhalation (Rat)	*> 19.07 mg/l/4h (Lit.)*
LC50 Inhalation (Rat)	*> 9500 ppm/4h (RTECS)*

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 : *Causes skin irritation.*

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

Respiratory or Skin Sensitization : *May cause an allergic skin reaction.*

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 : *May be fatal if swallowed and enters airways.*

Vaporizer : *Aerosol*

Carcinogen Data : *None of the ingredients in the product are listed with OSHA, IARC, NTP or ACGIH as being a suspected or known carcinogen in a concentration greater than 0.1% by weight.*

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Ecotoxicity and Ecological Properties

n-Butane (106-97-8)	
Persistence and Degradibility	*Readily biodegradable in water.*
Bioconcentration Factor	*33.52*
Log Pow	*2.89*
Bioacculative Potential	*Low potential for bioaccumulation (Log Kow < 4).*
Log Koc	*1.641*

Propane (74-98-6)	
Persistence and Degradibility	*Readily biodegradable in water. Not applicable (gas). Photodegradation in the air.*
BCF Fish	*9 - 25 (BCF)*
Log Pow	*2.28 (Calculated)*
Bioacculative Potential	*Low potential for bioaccumulation (Log Kow < 4).*

Isobutane (75-28-5)	
Persistence and Degradibility	*Readily biodegradable in water. Biodegradable in the soil. Not applicable (gas).*
BCF Fish	*26.62*
Log Pow	*2.76*
Bioacculative Potential	*Low potential for bioaccumulation (BCF < 500).*
Log Koc	*1.545*

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*

Secondary Butyl Alcohol (78-92-2)	
LC50 Fish	*3670 mg/l Fathead Minnow - 96h*
EC50 Daphnia	*4227 mg/l Water Flea - 48hr*
Persistence and Degradibility	*Biodegradability 88% / 28 days.*
Biochemical Oxygen Demand	*1.87 g O_2/g substance*
Chemical Oxygen Demand	*2.47 g O_2/g substance*
Theoretical Oxygen Demand	*2.59 g O_2/g substance*
Log Pow	*0.61 (Experimental value)*
Bioacculative Potential	*Low potential for bioaccumulation (Log Kow < 4).*

Tetrabutyl Titanate (5593-70-4)	
LC50 Fish	*1825 mg/l 96hr*
EC50 Daphnia	*1300 mg/l Water Flea - 48hr*
EC50 Other Aquatic Organisms	*225 mg/l Green Algae - 96hr*
Bioacculative Potential	*No bioaccumulation data available.*

Boron, Trifluoro(Tetrahydrofurane) Polymer (753501-40-5)	
Log Pow	*> 1.5*

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*

Hydrotreated Light Petroleum Naphtha (64742-49-0)	
LC50 Fish	*4.1 mg/l Fathead Minnow - 96h*
EC50 Daphnia	*10 mg/l Water Flea - 48hr*
EC50 Other Aquatic Organisms	*11 mg/l Green Algae - 72hr*
Log Kow	*3.6 - 5.7*

cyclohexane (110-82-7)	
LC50 Fish	*4.53 mg/l Fathead Minnow - 96h*

cyclohexane (110-82-7)	
EC50 Daphnia	*0.93 mg/l Water Flea - 48hr*
EC50 Other Aquatic Organisms	*3.4 mg/l Green Algae - 72hr*
Persistence and Degradibility	*Biodegradability 8% / 28 days.*
Biochemical Oxygen Demand	*0.22 g O_2/g substance*
Theoretical Oxygen Demand	*3.425 g O_2/g substance*
Log Pow	*3.44 (Experimental value; 25 °C)*
Bioacculative Potential	*Low potential for bioaccumulation (BCF < 500).*
Log Koc	*log Koc,Other; 2.89; QSAR; Koc; Other; 770; QSAR*

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.*

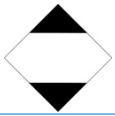
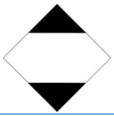
Landfill Precautions : *Not Available.*

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.*

Toluene	*CAS-No. 108-88-3*	*5 - 10%*
Xylene	*CAS-No. 1330-20-7*	*0.1 - 1%*
Ethyl Benzene	*CAS-No. 100-41-4*	*0.01 - 0.1%*
Secondary Butyl Alcohol	*CAS-No. 78-92-2*	*1 - 5%*
Benzene	*CAS-No. 71-43-2*	*0.01 - 0.1%*
n-Hexane	*CAS-No. 110-54-3*	*10 - 30%*
cyclohexane	*CAS-No. 110-82-7*	*1 - 5%*
Naphthalene	*CAS-No. 91-20-3*	*0.001 - 0.01%*

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*

Toluene	*CAS-No. 108-88-3*	*1000 lb*
Xylene	*CAS-No. 1330-20-7*	*100 lb*
Ethyl Benzene	*CAS-No. 100-41-4*	*1000 lb*
Benzene	*CAS-No. 71-43-2*	*10 lb*
n-Hexane	*CAS-No. 110-54-3*	*5000 lb*
cyclohexane	*CAS-No. 110-82-7*	*1000 lb*
Naphthalene	*CAS-No. 91-20-3*	*100 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.*

Ethyl Benzene (100-41-4)	*Cancer*	*Yes*	*0.0289 %*
Benzene (71-43-2)	*Cancer*	*Yes*	*0.0151 %*
Naphthalene (91-20-3)	*Cancer*	*Yes*	*0.0089 %*
Toluene (108-88-3)	*Developmental Toxicity*	*Yes*	*5.0206 %*
Benzene (71-43-2)	*Developmental Toxicity*	*Yes*	*0.0151 %*
n-Hexane (110-54-3)	*Reproductive Toxicity, Male*	*Yes*	*14.4013 %*
Toluene (108-88-3)	*No significance risk level (NSRL)*	*7000 µg/day*	
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*

n-Butane (106-97-8)	*U.S. - New Jersey - Right to Know Hazardous Substance List*
Propane (74-98-6)	*U.S. - New Jersey - Right to Know Hazardous Substance List*
Isobutane (75-28-5)	*U.S. - New Jersey - Right to Know Hazardous Substance 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*
Isobutyl Methacrylate (97-86-9)	*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
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*
Secondary Butyl Alcohol (78-92-2)	*U.S. - New Jersey - Right to Know Hazardous Substance List*
Benzene (71-43-2)	*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*
cyclohexane (110-82-7)	*U.S. - New Jersey - Right to Know Hazardous Substance List* *U.S. - Pennsylvania - RTK (Right to Know) List*
Naphthalene (91-20-3)	*U.S. - New Jersey - Right to Know Hazardous Substance List* *U.S. - Pennsylvania - RTK (Right to Know) List*

SECTION 16 - OTHER INFORMATION

Indication of changes :

Section	*Changed item*	*Change*
1	Revision date	Modified
1	Supersedes	Modified
2.1	GHS-US classification	Added
2.2	Hazard statements (GHS US)	Added
2.2	Precautionary statements (GHS US)	Added
3	Composition/Information on ingredients	Modified
4	Symptoms/effects after skin contact	Added
4	Symptoms/effects after inhalation	Added
4	Other medical advice or treatment	Added
4	Symptoms/effects after ingestion	Added
4	Symptoms/effects after eye contact	Added
4	Symptoms/effects	Added
4.1	First-aid measures after skin contact	Added
4.1	First-aid measures after inhalation	Added
4.1	First-aid measures after ingestion	Added
4.1	First-aid measures after eye contact	Added
4.1	First-aid measures general	Added
9	Specific gravity / density	Added
9	Relative vapor density at 20 °C	Added
9	Melting point	Added
9	Flash point	Added
9	Explosive limits (vol %)	Added
9	Boiling point	Added
9	Auto-ignition temperature	Added
9	Explosive properties	Added
9	Gas group	Added
9	Color	Added
9	Appearance	Added
10	Hazardous decomposition products	Added
10	Conditions to avoid	Added
12.1	Ecology - general	Added