# SAFETY DATA SHEET

# SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

Product ID: 492845
Product Name: ZenaTuff

 Revision Date:
 Jan 24, 2023
 Date Printed:
 Jan 24, 2023

 Version:
 4.0
 Supersedes Date:
 Aug 17, 2020

Manufacturer's Name: Zenex International

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**Product/Recommended Uses: Lubricant** 

# **SECTION 2) HAZARDS IDENTIFICATION**

### Classification

Aerosols - Category 1

Gases Under Pressure - Liquefied Gas

Aspiration Hazard - Category 1

Germ Cell Mutagenicity - Category 1B

Carcinogenicity - Category 1B

Eye Irritation - Category 2A

Skin Irritation - Category 2

Skin Sensitizer - Category 1

### **Pictograms**









### **Signal Word**

Danger

# **Hazardous Statements - Physical**

H222 - Extremely flammable aerosol.

H280 - Contains gas under pressure; may explode if heated.

### **Hazardous Statements - Health**

H304 - May be fatal if swallowed and enters airways

H340 - May cause genetic defects.

H350 - May cause cancer.

H319 - Causes serious eye irritation

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

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### **Precautionary Statements - General**

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.

### **Precautionary Statements - Prevention**

- P201 Obtain special instructions before use.
- 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 Do not pierce or burn, even after use.
- P280 Wear protective gloves, protective clothing, and eye and face protection.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P261 Avoid breathing mist, vapors, and spray.
- P264 Wash hands thoroughly after handling.

# **Precautionary Statements - Response**

- P308 + P313 IF exposed or concerned: Get medical attention.
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P331 Do NOT induce vomiting.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical attention.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P362 + P364 Take off contaminated clothing and wash it before reuse.
- P333 + P313 If skin irritation or a rash occurs: Get medical attention.

### **Precautionary Statements - Storage**

- P403 + P405 Store in a well-ventilated place. Store locked up.
- P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.

### **Precautionary Statements - Disposal**

P501 - Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS					
CAS	Chemical Name	% By Weight			
64742-49-0	VM & P NAPHTHA	12% - 37%			
64742-46-7	MINERAL SEAL OIL	10% - 55%			
64742-47-8	ISOPARAFFINIC PETROLEUM DISTILLATE	10% - 32%			
64742-95-6	AROMATIC HYDROCARBON MIXTURE >C9	3% - 25%			
61789-86-4	CALCIUM PETROLEUM SULFONATE	3% - 10%			
64-17-5	ETHYL ALCOHOL	3% - 10%			
64742-52-5	MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY NAPHTHENIC	2% - 5%			
67-63-0	ISOPROPYL ALCOHOL	0% - 3%			
124-38-9	Carbon Dioxide	1% - 3%			
98-82-8	Cumene	0% - 0.1%			

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

# **SECTION 4) FIRST-AID MEASURES**

#### Inhalation

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Remove source of exposure or move person to fresh air and keep comfortable for breathing. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor. If breathing has stopped, trained personnel should begin rescue breathing or, if the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED). If you feel unwell/lf concerned: Get medical advice/attention.

### **Eye Contact**

Rinse eyes cautiously with lukewarm, gently flowing water for 15 minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

#### **Skin Contact**

Wipe off with a towel. Wash with soap and water. Get medical attention if irritation persists.

### Ingestion

Ingestion is not a likely route of exposure. Get medical attention if you feel unwell.

### Most Important Symptoms/Effects, Acute and Delayed

No data available.

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

No data available.

# **SECTION 5) FIRE-FIGHTING MEASURES**

### **Suitable Extinguishing Media**

Foam, alcohol foam, carbon dioxide, dry chemical, water fog.

### **Unsuitable Extinguishing Media**

Water may be ineffective but can be used to cool containers exposed to heat or flame.

### **Specific Hazards in Case of Fire**

Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Liquid content of container will support combustion. Overexposure to decomposition products may cause a health hazard. Symptoms may not be readily apparent. Obtain medical attention. Hazardous decomposition products include carbon dioxide, carbon monoxide, and other toxic fumes.

### **Fire-fighting Procedures**

Water may be used to cool containers to prevent pressure build-up and explosion when exposed to extreme heat.

### **Special Protective Actions**

Wear goggles and use a self-contained breathing apparatus. If water is used, fog nozzles are preferred.

### **SECTION 6) ACCIDENTAL RELEASE MEASURES**

#### **Emergency Procedure**

Avoid breathing vapors. Ventilate area. Remove all sources of ignition.

# **Recommended Equipment**

Wear safety glasses with side shields. Use of gloves approved from relevant standards that meet or are equivalent to OSHA 29 CFR 1910.132.

### **Personal Precautions**

Avoid breathing vapors. Ventilate area.

### **Environmental Precautions**

Stop spill/release if it can be done safely.

# Methods and Materials for Containment and Cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

### **SECTION 7) HANDLING AND STORAGE**

### General

Do not puncture or incinerate (burn) cans. Do not stick pins, nails, or any other sharp objects into opening on top of can. Do not spray in eyes. Do not take internally.

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### **Ventilation Requirements**

Use in a well-ventilated place.

### **Storage Room Requirements**

Store and use in a cool, dry, well-ventilated area. Do not store above 120°F. See product label for additional information.

# **SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Eye protection**

Wear safety glasses with side shields. Eyewash stations and showers should be available in areas where this material is used and stored.

### **Skin Protection**

Use solvent-resistant protective gloves for prolonged or repeated contact.

### **Respiratory protection**

Avoid breathing vapors. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, use an approved air line respirator or hood. A self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.

### **Appropriate Engineering Controls**

Ventilation should be sufficient to prevent inhalation of any vapors.

Chemical Name	OSHA TWA (mg/m3)	OSHA TWA (ppm)	OSHA STEL (mg/m3)	OSHA Carcinogen	OSHA Skin designation	OSHA Tables (Z1, Z2, Z3)	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)
AROMATIC HYDROCARBO N MIXTURE >C9	2000	500				1	[(L)[N159](L) [N800]]; [5 (I) [N159]5 (I) [N800]];	(L)[N159](L) [N800]
CALCIUM PETROLEUM SULFONATE	2000	500				1		
Carbon Dioxide	9000	5000				1		5000
ETHYL ALCOHOL	1900	1000				1		
ISOPARAFFINI C PETROLEUM DISTILLATE	2000	500				1	[(L)[N159](L) [N800]]; [5 (I) [N159]5 (I) [N800]];	(L)[N159](L) [N800]
ISOPROPYL ALCOHOL	980	400				1		200
MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREAT ED (MILD) HEAVY NAPHTHENIC	2000	500				1	[(L)[N159](L) [N800]]; [5 (I) [N159]5 (I) [N800]];	(L)[N159](L) [N800]
MINERAL SEAL OIL	2000	500				1	[(L)[N159](L) [N800]]; [5 (I) [N159]5 (I) [N800]];	(L)[N159](L) [N800]
VM & P NAPHTHA	2000	500				1	[(L)]; [5 (I)];	(L)

Chemical Name	NIOSH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH Carcinogen	ACGIH TLV Basis	ACGIH Notations	NIOSH TWA (mg/m3)	NIOSH TWA (ppm)
AROMATIC HYDROCARBO N MIXTURE >C9				[A2[N159]A2 [N800]]; [A4 [N159]A4 [N800]];	URT irr [N159]URT irr [N800]	[A2[N159]A2 [N800]]; [A4 [N159]A4 [N800]];		
CALCIUM PETROLEUM SULFONATE								
Carbon Dioxide	30000		30000		Asphyxia		9000	5000

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ETHYL ALCOHOL		1000	A3	URT irr	A3	1900	1000
ISOPARAFFINI C PETROLEUM DISTILLATE			[A2[N159]A2 [N800]]; [A4 [N159]A4 [N800]];	URT irr [N159]URT irr [N800]	[A2[N159]A2 [N800]]; [A4 [N159]A4 [N800]];		
ISOPROPYL ALCOHOL	500	400	A4	Eye & URT irr; CNS impair	A4; BEI	980	400
MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREAT ED (MILD) HEAVY NAPHTHENIC			[A2[N159]A2 [N800]]; [A4 [N159]A4 [N800]];	URT irr [N159]URT irr [N800]	[A2[N159]A2 [N800]]; [A4 [N159]A4 [N800]];		
MINERAL SEAL OIL			[A2[N159]A2 [N800]]; [A4 [N159]A4 [N800]];	URT irr [N159]URT irr [N800]	[A2[N159]A2 [N800]]; [A4 [N159]A4 [N800]];		
VM & P NAPHTHA			[A2]; [A4];	URT irr	[A2]; [A4];	350	

Chemical Name	NIOSH STEL (mg/m3)	OSHA STEL (ppm)	NIOSH Carcinogen
AROMATIC HYDROCARBO N MIXTURE >C9			
CALCIUM PETROLEUM SULFONATE			
Carbon Dioxide	54000		
ETHYL ALCOHOL			
ISOPARAFFINI C PETROLEUM DISTILLATE			
ISOPROPYL ALCOHOL	1225		
MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREAT ED (MILD) HEAVY NAPHTHENIC			
MINERAL SEAL OIL			
VM & P NAPHTHA			

<sup>(</sup>C) - Ceiling limit, (L) - Exposure by all routes should be carefully controlled to levels as low as possible, A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, A4 - Not Classifiable as a Human Carcinogen, BEI - Substances for which there is a Biological Exposure Index or Indices, CNS - Central nervous system, impair - Impairment, irr - Irritation, URT - Upper respiratory tract

# **SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES**

# **Physical and Chemical Properties**

 Density
 7.16 lb/gal

 Density VOC
 4.30 lb/gal

 % VOC
 60%

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Appearance N.A.
Odor Threshold N.A.
Odor Description N.A.
pH N.A.
Water Solubility N.A.

Flammability Flash point below 73°F/23°C

Vapor Pressure N/A Flash Point <73°F Viscosity N.A. Lower Explosion Level N.A. Upper Explosion Level N.A. Melting Point N.A. Vapor Density N.A. Freezing Point N.A. Low Boiling Point N.A. High Boiling Point N.A. Decomposition Pt N.A. Auto Ignition Temp N.A.

Evaporation Rate Slower than ether

# **SECTION 10) STABILITY AND REACTIVITY**

### **Stability**

The product is stable under normal storage conditions.

### **Conditions To Avoid**

High temperatures.

### **Incompatible Materials**

No data available.

### **Hazardous Reactions/Polymerization**

None known.

### **Hazardous Decomposition Products**

Hazardous decomposition products may include carbon dioxide, carbon monoxide, and other toxic fumes.

# **SECTION 11) TOXICOLOGICAL INFORMATION**

# **Skin Corrosion/Irritation**

Causes skin irritation

### **Serious Eye Damage/Irritation**

Causes serious eye irritation

# Carcinogenicity

May cause cancer.

# **Germ Cell Mutagenicity**

May cause genetic defects.

### **Reproductive Toxicity**

Based on available data, the classification criteria are not met.

# Respiratory/Skin Sensitization

May cause an allergic skin reaction

### **Specific Target Organ Toxicity - Single Exposure**

Based on available data, the classification criteria are not met.

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# **Specific Target Organ Toxicity - Repeated Exposure**

Based on available data, the classification criteria are not met.

### **Aspiration Hazard**

May be fatal if swallowed and enters airways

### **Acute Toxicity**

Based on available data, the classification criteria are not met.

### **Likely Routes of Exposure**

Inhalation, Ingestion, Skin contact, Eye contact

# **SECTION 12) ECOLOGICAL INFORMATION**

### **Exotoxicity**

Based on available data, the classification criteria are not met.

# **Persistence and Degradability**

No data available.

### **Bioaccumulative Potential**

Contains constituents with the potential to bioaccumulate.

### **Mobility in Soil**

Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.

### **Other Adverse Effects**

No data available.

# **SECTION 13) DISPOSAL CONSIDERATIONS**

### **Waste Disposal**

Under RCRA, it is the responsibility of the user of the product, to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

# **SECTION 14) TRANSPORT INFORMATION**

	U.S. DOT Information	IMDG Information	IATA Information
UN number:	UN1950	UN1950	UN1950
Proper shipping name:	Aerosols (LTD QTY)	Aerosols (LTD QTY)	Aerosols, flammable (LTD QTY)
Hazard class:	2.1	2.1	2.1
Packaging group:	N.A.	N.A.	N.A.

# **SECTION 15) REGULATORY INFORMATION**

CAS	Chemical Name	% By Weight	Regulation List
64742-49-0	VM & P NAPHTHA	12% - 37%	SARA312, VOC, TSCA, ACGIH, OSHA
64742-46-7	MINERAL SEAL OIL	10% - 55%	SARA312, TSCA, ACGIH, OSHA
64742-47-8	ISOPARAFFINIC PETROLEUM DISTILLATE	10% - 32%	SARA312, VOC, TSCA, ACGIH, OSHA
64742-95-6	AROMATIC HYDROCARBON MIXTURE >C9	3% - 25%	SARA312, VOC, TSCA, ACGIH, OSHA
61789-86-4	CALCIUM PETROLEUM SULFONATE	3% - 10%	SARA312, TSCA, OSHA

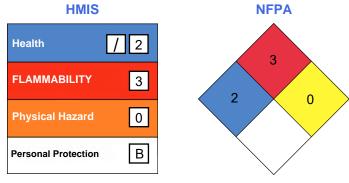
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64-17-5	ETHYL ALCOHOL	3% - 10%	SARA312, VOC, TSCA, ACGIH, OSHA
64742-52-5	MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY NAPHTHENIC	2% - 5%	SARA312, VOC, TSCA, ACGIH, OSHA
67-63-0	ISOPROPYL ALCOHOL	0% - 3%	SARA313, SARA312, VOC, TSCA, ACGIH, OSHA
124-38-9	Carbon Dioxide	1% - 3%	SARA312, TSCA, ACGIH, OSHA
0000098-82-8	Cumene	0% - 0.1%	SARA313, CERCLA, HAPS, SARA312, VOC, TSCA, RCRA, ACGIH, California Proposition 65 Cancer, OSHA

# **SECTION 16) OTHER INFORMATION**

### **Glossary**

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ- Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA- Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.



(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

### Version 4.0:

Revision Date: Jan 24, 2023

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