SAFETY DATA SHEET

SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

Product ID: 492845
Product Name: ZenaTuff

 Revision Date:
 Jan 24, 2023
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 4.0
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 Aug 17, 2020

Manufacturer's Name: Zenex International

Address: 1 Zenex Circle Cleveland, OH, US, 44146

Emergency Phone: 1-800-535-5053 Information Phone Number: (440)-232-4155

Fax:

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 | | | |

⁽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 |

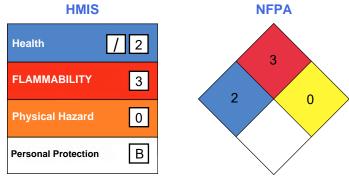
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| 64-17-5 | ETHYL ALCOHOL | 3% - 10% | SARA312, VOC, TSCA, ACGIH, OSHA |
|--------------|--|-----------|--|
| 64742-52-5 | MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY NAPHTHENIC | 2% - 5% | SARA312, VOC, TSCA, ACGIH, OSHA |
| 67-63-0 | 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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