



SAFETY DATA SHEET

SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

Product ID: 15753
Product Name: Zero Friction
Product Code: Item# ZF-1, ZF-6, ZF-Gallon

Revision Date: Mar 04, 2020
Version: 4.0

Manufacturer's Name: Pro-Shot Products, Inc.
Address: P.O. Box 763 Taylorville, IL, US, 62568

Information Phone Number: (217) 824-9133
Emergency Phone Contact: CHEMTREC: 800-424-9300 U.S. & CANADA
703-527-3887 INTERNATIONAL (Collect)

Product/Recommended Uses: Firearms Lubricant

Date Printed: Mar 04, 2020
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SECTION 2) HAZARDS IDENTIFICATION

Classification

Acute toxicity Inhalation - Category 4
Aspiration Hazard - Category 1

Pictograms



Signal Word

Danger

Hazardous Statements - Health

Harmful if inhaled
May be fatal if swallowed and enters airways

Precautionary Statements - General

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

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.

Precautionary Statements - Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor, if you feel unwell.
IF SWALLOWED: Immediately call a POISON CENTER or doctor.
Do NOT induce vomiting.

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local/national/international regulation. Waste management should be in full compliance with national, regional and local laws.

Hazards Not Otherwise Classified (HNOC)

No data available.

Acute toxicity of 2% of the mixture is unknown

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0151006-58-5	1-Dodecene, dimer with 1-decene, hydrogenated	20% - 40%
0025619-56-1	barium dinonylnaphthalene sulfonate	1.0% - 3%

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

SECTION 4) FIRST-AID MEASURES

Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor. IF exposed or concerned: Get medical advice/attention.

Eye Contact

If irritation occurs, cautiously rinse eyes with lukewarm, gently flowing water for 5 minutes, while holding the eyelids open. If eye irritation persists: Get medical advice/attention.

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes or until medical aid is available. If skin irritation occurs: Get medical advice/attention. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor. Wash contaminated clothing before re-use.

IF exposed or concerned: Get medical advice/attention.

Ingestion

Rinse mouth. If you feel unwell/If concerned: Get medical advice/attention. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor.

Most Important Symptoms and Effects, Both acute and Delayed

No data available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

No data available.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Small Fire : Dry chemical, foam, carbon dioxide, water-spray or alcohol-resistant foam. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

Large Fire : Water spray, fog or alcohol-resistant foam.

Unsuitable Extinguishing Media

Do not use straight stream of water.

Specific Hazards in Case of Fire

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Fire-Fighting Procedures

Stop spill/release if it can be done safely. Isolate immediate hazard area and keep unauthorized personnel out. Ventilate closed spaces before entering them.

Move undamaged containers from immediate hazard area if it can be done safely. Cool containers with flooding quantities of water until well after fire is out.

Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions

Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Isolate hazard area and keep unauthorized personnel away. Stay uphill and/or upstream. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Recommended Equipment

Wear chemical protective clothing.

Personal Precautions

Avoid contact with skin, eye or clothing. Avoid breathing vapor or mist.

Environmental Precautions

Stop spill/release if it can be done safely. Prevent spilled material and water from clean-up/firefighting from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

Methods and Materials for Containment and Cleaning Up

Absorb Liquids in vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal.

SECTION 7) HANDLING AND STORAGE

General

Wash hands after use.

Do not get in eyes, on skin or on clothing.

Do not breathe vapors or mists.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

Remove contaminated clothing and protective equipment before entering eating areas.

Eyewash stations and showers should be available in areas where this material is used and stored.

All containers must be properly labeled.

Ventilation Requirements

The use of local ventilation is recommended to control emissions near the source. Use only with adequate ventilation to control air contaminants to their exposure limits.

Storage Room Requirements

Keep containers securely sealed when not in use. Empty container retain residue and may be dangerous.

SECTION 8) EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye Protection

Wear indirect-vent, impact and splash resistant goggles when working with liquids.

Skin Protection

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Always seek advice from glove suppliers. Contaminated

gloves should be replaced.

Respiratory Protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 should be followed. Check with respiratory protective equipment suppliers.

Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	OSHA TWA (mg/m3)	OSHA TWA (ppm)	OSHA STEL (mg/m3)	OSHA STEL (ppm)	OSHA Skin designation	OSHA Carcinogen	OSHA Tables (Z1, Z2, Z3)	NIOSH TWA (mg/m3)
barium dinonylnaphthalene sulfonate	0.5						1	

Chemical Name	NIOSH TWA (ppm)	NIOSH STEL (mg/m3)	NIOSH STEL (ppm)	NIOSH Carcinogen	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH TWA (ppm)
barium dinonylnaphthalene sulfonate					0.5			

Chemical Name	ACGIH Carcinogen	ACGIH TLV Basis	ACGIH Notations
barium dinonylnaphthalene sulfonate	A4	Eye, skin, & GI irr; muscular stimulation	A4

A4 - Not Classifiable as a Human Carcinogen, GI - Gastrointestinal, irr - Irritation

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Density	6.84450 lb/gal
Specific Gravity	0.82015
VOC Actual(lb/gal)	0.00000 lb/gal
Appearance	Clear, Light Amber Liquid
Odor Description	Mild, Petroleum
Odor Threshold	No Data Available
pH	No Data Available
Flammability	Flash point at or above 200°F/93°C
Flash Point	174 °C
Freezing Point	No Data Available
Boiling Point	No Data Available
Auto Ignition Temp	No Data Available
Upper Explosion Level	No Data Available
Lower Explosion Level	No Data Available
Decomposition Point	No Data Available
Water Solubility	Insoluble
Viscosity	18 cSt @ 40°C
Coefficient Water/Oil	No Data Available
Evaporation Rate	No Data Available

SECTION 10) STABILITY AND REACTIVITY

Stability

Stable

Conditions To Avoid

Avoid heat, spark, flame, direct sunlight and contact with incompatible materials.

Hazardous Reactions/Polymerization

Hazardous polymerization will not occur.

Incompatible Materials

Strong oxidizing agents, strong reducing agents, strong acids, strong bases.

Hazardous Decomposition Products

No data available.

SECTION 11) TOXICOLOGICAL INFORMATION

Aspiration Hazard

May be fatal if swallowed and enters airways

Carcinogenicity

No data available.

Germ Cell Mutagenicity

No data available.

Reproductive Toxicity

No data available.

Respiratory/Skin Sensitization

No data available.

Serious Eye Damage/Irritation

No data available.

Skin Corrosion/Irritation

No data available.

Specific Target Organ Toxicity - Repeated Exposure

No data available.

Specific Target Organ Toxicity - Single Exposure

No data available.

Acute Toxicity

Harmful if inhaled

Likely Routes of Exposure

Skin Contact, Eye Contact, Ingestion, Inhalation.

Inhalation, Ingestion, Skin contact, Eye contact

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

SECTION 12) ECOLOGICAL INFORMATION

Other Adverse Effects

No data available.

Toxicity

No data available.

Mobility in Soil

No data available.

Bio-accumulative Potential

No data available.

Persistence and Degradability

No data available.

Other Adverse Effect

No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, 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.

SECTION 14) Transport Information

	IATA Information	IMDG Information	U.S. DOT Information
UN number:	Not Regulated	Not Regulated	Not Regulated
Proper shipping name:	N/A	N/A	N/A
Hazard class:	Not Applicable	Not Applicable	Not Applicable
Packaging group:	Not Applicable	Not Applicable	Not Applicable
Hazardous substance (RQ):			No Data Available
Marine Pollutant:		No Data Available	No Data Available
Note / Special Provision:	No Data Available	No Data Available	No Data Available
Toxic-Inhalation Hazard:			No Data Available

SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0151006-58-5	1-Dodecene, dimer with 1-decene, hydrogenated	20% - 40%	TSCA
0025619-56-1	barium dinonylnaphthalene sulfonate	1.0% - 3%	TSCA

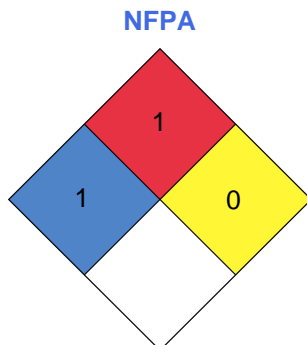
The information in this Section does not list components that might have relevant TSCA regulatory values, if they are present at less than 100%. Please contact manufacturer for more information.

SECTION 16) OTHER INFORMATION

Glossary

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CANsmg or CANspmm - Canadian Short Term Exposure Level in mg/L or in ppm; CANtmg or CANtppm - Canadian Time Weighted Average in mg/L or in ppm; 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

HMIS	
Health	1 / 1
FLAMMABILITY	1
Physical Hazard	0
Personal Protection	A



(*) - 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

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