



SAFETY DATA SHEET

Part No. ZF-Spray-6 Aerosol

September 18, 2015

Revision 2

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Zero Friction

SECTION 1 - IDENTIFICATION

Product Identifier

Product Number(s) #ZF-SPRAY-6

Product Name Zero Friction

Other Means of Identification None

Recommended Use and Restrictions on Use

Recommended Use Lubricant for firearms, knives, and tools.

Restrictions on Use None Identified

(Chemtrec) 24 hr Emergency
Phone Number

800-424-9300
International (US & Canada Collect)
Phone# 703-527-3887

MANUFACTURER DETAILS		CONTACT DETAILS	
Name	Pro-Shot Products, Inc.	Manufacturer	Pro-Shot Products
Address	PO Box 763 Taylorville IL 62568	Additional Contact Information	Toll Free: 800-477-7922 Email: service@proshotproducts.com www.ProShotProducts.com
Phone Number	217-824-9133		
Fax Number	217-824-8861		

SECTION 2 - IDENTIFICATION

Hazard Classification

HEALTH HAZARDS		PHYSICAL HAZARDS			
Acute Tox. Oral	Mutagenicity	Unstable Explosive		Refrigerated Liq. Gas	Pyrophoric Solid
Acute Tox. Skin	Carcinogenicity	Explosive		Flammable Liquid	Emits Flammable Gas
Acute Tox. Inhalation	Tox. to Reproduction	Flammable Gas		Flammable Solid	Oxidizing Liquid
Skin Irritation	STOT SE	Aerosol	3	Self-Reactive Sub.	Oxidizing Solid
Eye Irritation	STOT RE	Oxidizing Gas		Pyrophoric Liquid	Organic Peroxide
Resp. Sensitization	Aspiration Hazard	Gas Under Pressure	X	Self-Heating Substance	Corrosive to Metal
Skin Sensitization		ENVIRONMENTAL HAZARDS (GHS Rev 3 Only)			
		Aquatic Acute		Aquatic Chronic	Ozone Depleting

Signal Word

Danger

Hazard Pictograms



Hazard Statements

Contains gas under pressure: may explode if heated. May be fatal if swallowed and enters airways.

Precautionary Statements

General

Keep out of reach of children.

Prevention

Do not pierce or burn, even after use.

Response

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

Storage

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

Disposal

Dispose of contents/container in accordance with local regulations.

Hazards Not Otherwise Classified

None identified.



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Unknown Acute Toxicity

4 % by wt

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

ID	INGREDIENT	CAS NUMBER	% WT RANGE*
1	Polyalphaolefin	0068037-01-4	60 - 100
2	Sodium Sulfonate	0068608-26-4	3 - 7

* Exact percentages of composition withheld as trade secret

SECTION 4 - FIRST AID MEASURES

Description of First-Aid Measures

General	<i>If exposed or concerned seek medical advice/attention.</i>
Eye Contact	<i>Immediately flush with clear water for at least 15 minutes, including under the eyelids. Consult a doctor.</i>
Skin Contact	<i>Remove with soap and water, rinsing and repeating for 15 minutes. Use skin cream to counter any resulting dryness. Consult a physician if irritation continues. If large skin area is affected, remove contaminated clothing.</i>
Ingestion	<i>Do not induce vomiting! Immediately have the victim drink plenty of water. Do not give milk or digestible oils. Keep airways free. Contact a physician. Never give anything by mouth if victim is rapidly losing consciousness, unconscious, or convulsing.</i>
Inhalation	<i>Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist or if unconscious.</i>
First-Aid Responder Protection	<i>Wear adequate personal protective equipment based on the nature and severity of the emergency.</i>

Most Important Symptoms and Effects, Both Acute and Delayed

Eye Contact	<i>Liquid contact may cause pain along with moderate eye irritation.</i>
Skin Contact	<i>Prolonged or repeated exposure may cause skin irritation. Repeated contact may cause drying or flaking of skin. May cause more severe response if confined to skin.</i>
Ingestion	<i>Due to being an aerosol, the product does not lend itself to ingestion. Should ingestion occur, it may cause irritation to membranes of the mouth, throat, and gastrointestinal tract resulting in vomiting and/or cramps. Aspiration of vomit into the lungs may cause inflammation, and possible chemical pneumonitis, bronchopneumonia, or pulmonary edema.</i>
Inhalation	<i>Prolonged or repeated overexposure is anesthetic. May cause irritation of the respiratory tract, or acute nervous system depression characterized by headache, dizziness, staggering gait, confusion or death. Irritation of the mucous membranes, coughing, and dyspnea are also possible.</i>

Indication of Immediate Medical Attention and Special Treatment

Notes to Physician	<i>Treat symptomatically.</i>
Specific Treatments/Antidotes	<i>No information available.</i>
Immediate Medical Attention	<i>No information available.</i>

SECTION 5 - FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media	<i>Water, CO₂, dry chemical, or universal aqueous film forming foam</i>
Unsuitable Extinguishing Media	<i>Water jet</i>

Specific Hazards Arising from the Chemical or Mixture

Decomposition Products	<i>Oxides of carbon (CO, CO₂), smoke, and/or vapors</i>
Hazards from the Product	<i>CONTENTS UNDER PRESSURE. In a fire or if heated, a pressure increase will occur which may result in the container exploding.</i>

Advice for Firefighters

Protective Actions	<i>Use water spray to cool fire exposed containers as contents may rupture violently from heat developed pressure.</i>
Protective Equipment	<i>As with any fire wear SCBA pressure-demand, MSHA/NIOSH approved, and full protective gear.</i>



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SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

- For Non-Emergency Personnel** *No action should be taken by non-emergency 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 Responders** *Use personal protection as recommended in Section 8. Observe precautions provided for non-emergency personnel.*

Environmental Precautions

- Precautions** *Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.*

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. DO NOT use combustible material such as sawdust.*
- 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. See Section 13 for disposal.*
- Prohibited Materials** *Combustible absorbent material such as sawdust, use of equipment that may cause sparking.*

SECTION 7 - HANDLING AND STORAGE

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. Wash hands after use.*
- 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.*

Conditions for Safe Storage Including Any Incompatibilities

- Storage Requirements** *Storage of individual cans should be done in an area below 50 °C (122 °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. This product is classified as a Level 3 Aerosol.*
- Incompatibilities** *Segregate storage away from materials indicated in Section 10*

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits

ID	PEL	OSHA STEL	CEILING	IDLH	REL	NIOSH STEL	CEILING	TLV	ACGIH STEL	CEILING	AIHA WEEL
-	-	-	-	-	-	-	-	-	-	-	-

Biological Exposure Indices

ID	DETERMINANT	SAMPLING TIME	BEI	NOTATION
-	-	-	-	-

- Other Control Parameters** *Not Available*



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Appropriate Engineering Control

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.

Individual Protection Measures

Hygiene Considerations

Avoid breathing vapors and contact with the skin and eyes. Always replace overcap when not in use. Keep out the reach of children. Wash hands after use.

Thermal Protection

This product does not present a thermal hazard.

Respiratory Protection

An approved respirator with organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed occupational exposure limits. If respirators are needed, in the United States compliance with OSHA standard 29 CFR 1910.134 is necessary.

Skin 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.

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.

Other Protective Equipment

Safety showers and eye-wash stations should be available in the workplace near where the material will be used.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical Properties

Boiling Point	Not Determined	Melting / Freezing Point	Not Determined
Flash Point, Liquid	> 129.0 °C (264.2 °F)	Flash Point, Propellant	Non-Flammable
Explosive Limits	Not Available	Autoignition Temperature, Liquid	Non-Flammable
Flammability	Non-Flammable Aerosol	Relative Density (H ₂ O = 1)	0.840 g/cc
Molecular Weight	Not Available	Weight	7.011 lbs/gal
Vapor Pressure	Not Determined	pH	Not Available
Vapor Density	Not Available	Evaporation Rate	Not Available
Form	Pressurized Product	Partition Coefficient	Not Available
Viscosity	Not Available	Refractive Index	Not Available
Odor Threshold	Not Available	Heat of Combustion (ΔH _c)	Not Available
Odor	Slight odor	Water Solubility	Not Available
Appearance / Color	Clear amber liquid	Decomposition Temperature	Not Available

Air Quality Properties

Percent Volatile	None	VOC Regulatory	None
Percent VOC	None	VOC Actual	None
Percent HAP	None	HAP Content	None
Solids/Non Volatile Content	100% Wt (100% Vol) Max	Maximum Incremental Reactivity	None
Global Warming Potential	0.00		

SECTION 10 - STABILITY AND REACTIVITY

Reactivity

No specific test data related to reactivity is available for this product or its ingredients.

Chemical Stability

This product is stable.

Hazardous Reactions

Under normal conditions of storage and use, hazardous reactions are not expected to occur.

Conditions to Avoid

Keep away from heat, sparks, flame, and red hot metal.

Material Incompatibility

Not applicable.

Decomposition Productions

Oxides of carbon may be formed depending on fire conditions.



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SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity Estimates (mixture)

Oral LD ₅₀	5207 mg/kg
Dermal LD ₅₀	2187 mg/kg
Inhalation LC ₅₀	477 mg/L 4-hour

Acute Toxicity on Ingredients

ID	ORAL LD50		DERMAL LD50		INHALATION LC50		
	VALUE	SPECIES	VALUE	SPECIES	VALUE	TIME	SPECIES
1	>5000 mg/kg	rat	>2000 mg/kg	rat	>2500 mg/m3	4h	rat
2	>5000 mg/kg	rat	–	–	–	–	–

Health Hazard Classification

Skin Corrosion / Irritation	Classification criteria not met
Eye Damage / Irritation	Classification criteria not met
Respiratory Irritation	Classification criteria not met
Respiratory / Skin Sensitization	Classification criteria not met
Germ Cell Mutagenicity	Classification criteria not met
Reproductive Toxicity	Classification criteria not met
STOT - Single Exposure	Classification criteria not met
STOT - Repeated Exposure	Classification criteria not met
Aspiration Hazard	Category 1
Carcinogen Data	

ID	Calif Prop-65	OSHA	NIOSH	ACGIH	NTP	IARC
	No	No	No	No	No	No

Information on the Likely Routes of Exposure

Routes of Exposure	Skin contact, skin absorption, eye contact, inhalation
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Information on Physical, Chemical and Toxicological Effects

Symptoms of Exposure	No known symptoms.
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Delayed and Immediate Effects and also Chronic Effects from Short and Long-Term Exposure

Delayed Effects	No known delayed effects.
Immediate Effects	No known immediate effects.
Chronic Effects	Reports have associated repeated and prolonged occupational overexposure to solvents with irreversible brain and nervous system damage (sometimes referred to as "Solvent or Painter's Syndrome"). Intentional misuse by concentrating and inhaling this product may be harmful or fatal.
Medical Conditions Aggravated	May aggravate personnel with pre-existing disorders associated with any of the Target Organs.
Target Organs	No known target organs.

SECTION 12 - ECOLOGICAL INFORMATION

Acute Aquatic Toxicity

ID	TYPE	FISH			INVERTEBRATES			AQUATIC PLANTS			MICROORGANISMS	
		VALUE	PERIOD	TYPE	VALUE	PERIOD	TYPE	VALUE	PERIOD	TYPE	VALUE	PERIOD
1	LC50	>1000 mg/L	96h	EC50	190 mg/L	48h	–	–	–	–	–	–

Ecological Data

ID	PERSISTENCE	PERSISTENCE AND DEGRADABILITY			ThOD	BIOACCUMULATIVE POTENTIAL		MOBILITY
		BOD	COD	Pow / Kow		BCF	Koc	
–	–	–	–	–	–	–	–	–



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Other Adverse Effects

No additional information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

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

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

Transportation Information

UN Number

Ground Transportation (DOT)

UN1950

Air Transportation (IATA)

UN1950

Ocean Transportation (IMDG)

UN1950

Proper Shipping Name

Aerosols, Limited Quantity

Aerosols, Non-Flammable, Limited Quantity

Aerosols, Limited Quantity

Hazard Class(es)

2.2

2.2

2.2

Packaging Group

—

—

—

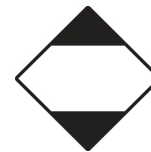
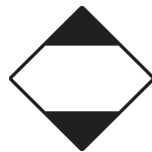
Marine Pollutant

No

No

No

Hazard Label(s)



SECTION 15 - REGULATORY INFORMATION

Federal Regulations

ID	TSCA	SARA 302	RCRA	CERCLA	SARA 313	FIRE	REACTIVITY	SARA 311/312		PRESSURE	CLEAN AIR ACT		CLEAN WATER ACT
	LISTED	EHS TPQ						ACUTE	CHRONIC		HAP	SOCMI	
1	Yes	—	—	—	—	—	—	Yes	—	—	—	—	—
2	Yes	—	—	—	—	—	—	—	—	—	—	—	—

State Regulations

ID	CA	DE	MA	ME	MN	NJ	NY	PA	WA	WI	WV		
	P-65	RQ	RTK CODES	TYPE	RQ	RTK	AIR	LAND	ACUTE	LISTED	PEL TWA	TABLE	TAP
—	—	—	—	—	—	—	—	—	—	—	—	—	—

SECTION 16 - OTHER INFORMATION

SDS Revision History

Revision 2, 09/18/2015, Updated to GHS Version 3 Format.

SDS Compliance

This SDS complies with the below listed regulations only. For SDS that comply with other countries, please contact our Regulatory Department at msds@chem-pak.com

OSHA Hazard Communication Standard (HCS 2012) 29 CFR 1910.1200

Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Revision 3

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Disclaimer of Liability

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