

M A T E R I A L S A F E T Y D A T A S H E E T

SF15 - Ten Second Starting Fluid
Part #SF15

Gold Eagle Company
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***** HMIS RATINGS *****
Health: 2 Flammability: 4 Reactivity: 0 Pers. Prot. Index: B

***** NFPA RATINGS *****
Health: 2 Fire: 4 Reactivity: 0 Specific Hazard: None

SECTION I PRODUCT IDENTITY

Product/Trade Name(s): SF15 - Ten Second Starting Fluid
Part Number: SF15
MSDS Date: 03/17/97
CAS #: N/A
Category: Aerosol
Distributor: N/A
Chemical Name: N/A
Formula: N/A
Brief Description: N/A

SECTION II HAZARDOUS INGREDIENTS & EXPOSURE LIMITS

CHEMICAL NAME	CAS #	%	LIMIT VALUES	
CARBON DIOXIDE	124-38-9	5.00	PEL	5,000 ppm
			PEL	9,000 mg/m3
DIETHYL ETHER	60-29-7	50.00	PEL	400 ppm
			PEL	,200 mg/m3
HEPTANE	142-82-5	44.00	PEL	500 ppm
			PEL	2,000 mg/m3

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: N/A
Vapor Pressure (mm Hg.): N/A
Vapor Density (AIR = 1): N/A
Solubility in Water: Negligible
% Volatile / Volume: 94.5
Appearance and Odor: Aerosol
pH: N/A
Specific Gravity (H2O = 1): N/A

Miscellaneous Information

Extremely flammable compressed gas aerosol. Vapors accumulation can flash or explode. Keep product away from sources of ignition, oxidizing materials and temperatures exceeding 120 F.. Empty containers contain product

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SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS (cont.)

Miscellaneous Information (cont.)

residues, assume empty containers to have the same hazards as full containers.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point: -156 F. (-104.4 C.)

Flammable Limits: 1.8 to 48.0

Lower Explosive Limit (LEL): 1.8

Upper Explosive Limit (UEL): 48.0

Extinguishing Media

Carbon dioxide, dry chemical, foam and water fog.

Special Fire Fighting Procedures

Use SCBA apparatus operated in pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards

Water spray may be ineffective, water may be used to cool containers to prevent pressure build up and explosion when containers are exposed to extreme heat. Product is extremely flammable at all times. Avoid inadvertent ignition sources, including static spark.

SECTION V REACTIVITY DATA

Stable: Yes

Hazardous Polymerization May Occur: No

Conditions to Avoid

Extreme heat (storage) above 120 F., exposure to extreme heat and application to hot surfaces.

Incompatibility (Material to Avoid)

Oxidizing agents.

Hazardous Decomposition or Byproducts

May produce fumes when heated to decomposition, fumes may contain carbon monoxide.

SECTION VI HEALTH HAZARD DATA

Effects on Eyes

Irritant

Effects on Skin

Irritant.

Effects Due to Ingestion

Not a likely source of entry or exposure, seek immediate medical attention.

Effects Due to Inhalation

Respiratory irritation and coughing, headache, nausea, fatigue, drowsiness and impaired coordination. (Note product is a strong anesthetic causing dizziness, intoxication and unconsciousness.)

First Aid Procedures for Eyes

If the product contacts the eyes, immediately wash the eyes with large quantities of room temperature water for at least 15 minutes, occasionally lifting the lower and upper lids. Get medical attention immediately. A follow up visit to an ophthalmologist should be made. Contact lenses should

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SECTION VI HEALTH HAZARD DATA (cont.)

First Aid Procedures for Eyes (cont.)

not be worn when working with this chemical.

First Aid Procedures for Skin

If the product contacts the skin, promptly wash the contaminated skin with soap and water for at least 15 minutes. Get medical attention as required.

First Aid Procedures for Ingestion

Get medical attention immediately. Proper treatment is dependent on the condition of the person and amount ingested.

First Aid Procedures for Inhalation

Move the exposed person to fresh air at once and call emergency medical care. If breathing has stopped, give artificial respiration. If breathing is difficult, give humidified oxygen.

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled

SMALL SPILLS: Remove sources of heat or ignition, provide adequate ventilation, contain leak using absorbent, inert, non-combustible material.

LARGE SPILLS: Contain spill, transfer to secure containers. In the event of an uncontrolled material release, the user should determine if release is reportable under applicable laws and regulations.

Waste Disposal Method

Dispose of product in accordance with local, state, and federal regulations. Before attempting clean up, refer to other sections of MSDS for hazard warning information.

Precautions to Be Taken in Handling and Storing

See other sections of MSDS.

Other Precautions

None

SECTION VIII CONTROL MEASURES

Local Exhaust: Provide local ventilation to maintain exposure levels below any recommended limits.

Mechanical (General): In confined spaces, mechanical ventilation may be required.

Special Ventilation: N/A

Other Ventilation: N/A

Protective Gloves: Use natural rubber or neoprene gloves as required.

Eye Protection: Use splash proof chemical, safety goggles or appropriate full-face shield.

Other Protective Clothing or Equipment

If there is a possibility of exposure of an individual's body to the product, wear body covering clothes to avoid prolonged or repeated exposure.

Work/Hygienic Practices

Use normal hygiene practices.

Respiratory Protection (Specify Type)

Normally not required. A NIOSH approved respirator approved for organic vapors and mists may be used after determining airborne levels of organic vapors in the workplace.

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SECTION VIII CONTROL MEASURES (cont.)

Respiratory Protection (Specify Type) (cont.)

SECTION IX ADDITIONAL INFORMATION

Additional Information

SHIPPING INFORMATION (CFR 49 AND IMDG):

- PROPER SHIPPING NAME: Fluid, Engine Starting
- DOT HAZARD CLASS : Engine Starting Fluid, 2.1, UN1960, Flammable Gas.
- IMDG SHIPPING NAME : Aerosols (<1000cm³), Dangerous Goods in Limited Quantities of Class 2 (UN1950).

SARA TITLE III:

- Section 302: None
- Section 304: None
- Section 311: None
- Section 313: None

CERCLA:

Section 311 (b)(4): Requires discharges of crude oil and petroleum products in any kind of form to waters must be reported to the National Response Center at (800) 424-8802.

DISCLAIMER: Information presented herein is believed to be factual, as it has been derived from the works and opinions of persons believed to be qualified experts. However, nothing contained in this information is to be taken as warranty or representation for which the Gold Eagle Co. bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

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