

MATERIAL SAFETY DATA SHEET

CONFORMS TO DIRECTIVE 2001/58/EC AMENDING DIRECTIVE 91/155/EEC

Section 1. Identification of the Company and the Preparation

Product Name JAX HALO-GUARD FG-2 (AEROSOL)

Revision Date 9/2/2008

Supersedes Date 3/12/2008

Supplier PRESSURE-LUBE, INC.

W134 N5373 CAMPBELL DRIVE

MENOMONEE FALLS, WI 53051 USA

Product No. JAX213

Material Use Lubricant

Non-Emergency Contact Phone: 1-800-782-8850 (North America) +01-262-781-8850 (International)

Fax: 1-262-781-3906 (North America) +01-262-781-3906 (International)

In Case of Emergency CHEMTREC: 1-800-424-9300 (North America) +01-703-527-3887 Collect (International)

Section 2. Composition / Information on Ingredients

This preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Components listed below either meet the reporting requirements as specified in U.S. 29 CFR 1910.1200 or EU Directive 1999/45/EC as amended, or are reported for informational purposes only.

Ingredient*	%	PEL/TLV, Source	CAS#	EINECS#	EU Hazard Symbol	R-Phrases**
Heptane	30-50	400 ppm, OSHA	142-82-5	205-563-8	F; Xn; N	R11-38-50/53-65-67
Propane	5-10	1000 ppm, OSHA	74-98-6	200-827-9	F+	R12
n-Butane	5-10	800 ppm, OSHA	106-97-8	203-448-7	F+	R12
Zinc oxide	1-5	5 mg/m ³ (fumes), OSHA	1314-13-2	215-222-5	N	R50/53

*See Section 11 for LD_{50} and LC_{50} of ingredients.

**See Section 16 for full text of R-Phrases.

Section 3. Hazards Identification

Physicochemical Hazards Extremely flammable
Human Health Hazards See Section 11.

Environmental Hazards Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Section 4. First Aid Measures

Eye Contact Flush with large amounts of water, occasionally lifting upper and lower eyelids. Get medical attention.

Skin Contact Thoroughly wash exposed area with soap and water. Remove contaminated clothing and launder it before reuse. Should any

irritation persist, get medical attention.

Ingestion Ingestion is not likely as an aerosol but, if ingested, DO NOT induce vomiting. If spontaneous vomiting is about to occur, place the

victim's head below his knees to prevent aspiration. Never give anything by mouth to an unconscious person. Do not leave victim

unattended. Call a physician or transport to an emergency facility.

Inhalation If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial

respiration. Keep person warm and quiet. Get medical attention.

Section 5. Firefighting Measures

Flash Point N/A Autoignition Temperature N/A
Sensitive to Mechanical No Sensitive to Static N/A
Impact Discharge

Lower Flammability Limit N/A Upper Flammability Limit N/A

Extinguishing Media Extinguishing media include dry chemical, alcohol foam, and carbon dioxide-type extinguishing agents. Do not use direct stream

of water. Water may be used to keep fire-exposed containers cool.

Special Hazards Keep exposed containers cool with water spray to prevent rupture. Do not puncture or incinerate cans. Never use welding or

cutting torch on or near this product because even just residue can ignite explosively. Firefighters should wear full protective gear, including SCBA's in a positive-pressure mode with full face shield. Vapors are heavier than air and may travel long distances and accumulate in low areas or spread along ground away from handling site. Eliminate all sources of ignition. Do not use direct

stream of water because product will float and can reignite on surface of water.

Products of Combustion Carbon monoxide and carbon dioxide.

Special Protective Equipment for Firefighters Firefighters should wear full protective clothing, including helmet, and NIOSH-approved self-contained breathing apparatus with

full facepiece operated in pressure-demand or other positive-pressure mode.

Section 6. Accidental Release Measures

Personal Precautions

Extinguish all sources of ignition. Provide sufficient ventilation and/or respiratory protection. Wear appropriate protective clothing, gloves, face mask, goggles/glasses to prevent contact with the eyes and skin. See Section 8.

Environmental Precautions Keep product out of sewers and watercourses by diking or impounding. Advise authorities if the product has entered or may enter

sewers, watercourses, or extensive land areas.

Methods for Clean-Up

Recover free product using non-sparking tools. Add sand, earth, or other suitable absorbent material to the spill area. Dispose of in accordance with national and/or local regulations relating to waste disposal.

Section 7. Handling and Storage

Keep away from heat, sparks, open flame or where temperature may exceed 49°C (120°F). "Empty" containers retain product Handling

residue and can be dangerous. Do not cut, weld, braze, solder, drill, or grind such containers as they may explode and can cause injury or death. Do not throw empty container into fire or trash compactor. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Use only with adequate ventilation. Do not breathe vapor or mist. Do not take internally. Do not transfer to nor store in an unmarked container. Read label and MSDS before using. Do not smoke when handling or using this product. For

industrial use only.

Storage Store in tightly sealed containers. Do not store in direct sunlight. Keep away from heat, sparks and open flame. Store containers

below 120°F (49°C). Do not throw empty container into fire or trash compactor.

Section 8. Exposure Controls / Personal Protection

Occupational **Exposure Limit** 5 mg/m³ (oil mist) OSHA, for total product; see Section 2 for component exposure limit(s).

Respiratory Protection Use with adequate ventilation. Respiratory protective equipment is not normally required where there is adequate natural or local

exhaust ventilation to control exposure. In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH/MSHA-

approved air-supplied respirator is advised in absence of proper environmental control.

Ventilation Local mechanical exhaust ventilation capable of maintaining emissions at the point of use below the PEL/TLV.

Protective Gloves Use protective gloves if contact with product is likely.

Eye Protection Chemical splash goggles or face shield are advised when eye contact may occur.

Personal Hygiene Wash exposed areas with soap and water when finished using this product. Do not eat or drink when using this product. Do not

swallow. Wash hands before eating or using washroom.

Engineering Controls Implement engineering controls so that workplace exposure limit(s) of product or any component is not exceeded. Use impervious

protective clothing (gloves, boots, apron or full body suit) depending on operation.

Section 9. Physical and Chemical Properties

N/A

Cream-colored with mild solvent odor N/A Appearance/Odor Vapor Pressure

> Solubility in Water Negligible

Density North America: 6.001 lbs/gallon (typical)

Boiling Point N/A European Union: 0,719 g/cm3 (typical)

Not an oxidizer **Oxidizing Properties** Viscosity N/A

Percent Volatile 50-60 Vapor Density Heavier than air

Coefficient of Water/Oil N/A

Distribution

Partition Coefficient: N/A

n-octanol/water Liquid, grease, and compressed gas in aerosol **Physical State**

can

Slower than ether

Section 10. Stability and Reactivity

Conditions and Materials to Avoid

Avoid heat, sparks, open flames, welding arcs, direct sunlight and other high temperature sources. Avoid strong oxidizers.

Evaporation Rate

Hazardous Polymerization Hazardous polymerization will not occur.

Products

Hazardous Decomposition Carbon monoxide and carbon dioxide.

Section 11. Toxicological Information

Routes of Entry

Skin contact, eye contact, ingestion and inhalation.

Skin

Skin Contact: Skin irritant. Mild to severe skin irritation may occur upon prolonged or repeated contact. Prolonged or repeated contact may cause moderate to severe dermatitis. Chronic symptoms may include drying, swelling, scaling, blistering, cracking, and severe tissue damage.

Skin Absorption: A single prolonged skin exposure is not likely to result in harmful amounts absorbed, but this product may be readily absorbed through the skin producing central nervous system depression effects.

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Considered an eye irritant. Vapors may cause severe eye irritation. Symptoms can include redness, swelling, pain, tearing, and

hazy vision.

Ingestion ASPIRATION HAZARD. Ingestion is not likely as an aerosol but, if swallowed, it can be harmful or fatal. Small amounts of this

product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, even death. May cause weakness and gastrointestinal tract irritation. Product can be readily absorbed through the stomach and intestinal tract. Symptoms include a burning sensation in the mouth or esophagus, nausea, vomiting, dizziness, staggering gait, drowsiness, loss of consciousness, and delirium. Additional central nervous system effects may occur prior to the onset of convulsions, coma,

and death.

Inhalation This product may irritate the mucous membranes of the mouth, throat, and esophagus, and may cause nausea, loss of appetite,

lassitude, light-headedness, giddiness, dizziness, and incoordination. Respiratory arrest, convulsions, semi-consciousness or unconsciousness may result from extreme exposure. Can cause central nervous system depression. Asthma and other respiratory ailments may be aggravated by exposure to product. Intentional misuse by deliberately concentrating and inhaling the

contents may be harmful or fatal.

Acute Toxicity / LD₅₀ and LC₅₀ of Ingredients

Eye

Ingredient	LD _{s0}	LC ₅₀
Heptane	Oral/Rat > 15000 mg/kg	Inhalation/Rat = 103 g/m ³ /4h
Propane	N/A	Inhalation/Rat = 361 g/m ³
n-Butane	N/A	Inhalation/Rat = 658 g/m ³ /4h
Zinc oxide	Oral/Rat > 15000 mg/kg	Inhalation/Rat > 5.7 mg/l/4h

Chronic Toxicity / Carcinogenicity

Ingredient	CAS#	NTP Known Carcinogen	NTP Anticipated Carcinogen	IARC Group
Heptane	142-82-5	No	No	No
Propane	74-98-6	No	No	No
n-Butane	106-97-8	No	No	No
Zinc oxide	1314-13-2	No	No	No

Section 12. Ecological Information

Ecotoxicity N/A Bioaccumulative Potential N/A Mobility N/A Persistence and Degradability N/A Degradability

Section 13. Disposal Considerations

Waste Disposal Consult national or regional authorities for proper disposal and reporting procedures. All disposals must comply with national and

regional regulations.

Section 14. Transportation Information

Dangerous goods descriptions may not reflect package size, quantity, end-use or region-specific exceptions that can be applied to shipments. Consult shipping documents for material-specific descriptions.

U.S. D.O.T.

Proper Shipping Name: Aerosols, flammable, n.o.s.

UN Number: UN1950
Hazard Class: 2.1
Packing Group: None
Remarks None

Land Transport ADR/RID

Proper Shipping Name Aerosols, flammable, n.o.s.

UN Number

Hazard Class

Packing Group

None

UN1950

INDUSTRIAL LUBRICANTS (UK) LIMITE

Tel. 08701 632933 Fax. 08701 632933

Maritime Transport IMDG

Proper Shipping Name N/A
IM Number N/A
IMDG Code N/A

Packing Group N/A

Air Transport IATA

Proper Shipping Name N/A UN Number N/A Hazard Class N/A Packing Group N/A Remarks N/A

Section 15. Regulatory Information

U.S. Federal Regulations

CERCLA Release of the following chemical(s) at quantities equal to or greater than the reportable quantities (RQ), is regulated by

40 CFR 302.4:

None

SARA (Section 313) This product contains the following chemical(s) listed in Section 313 at or above the de minimis concentrations:

Zinc oxide, CAS #1314-13-2, present at 1-5%

SARA Extremely Hazardous List

This product contains greater than 1.0% of the following chemical(s) on the SARA Extremely Hazardous Substances List:

None

TSCA Inventory All components of this material are on the U.S. TSCA Inventory.

State Regulations

California Prop. 65 This product contains the following chemical(s) known to the State of California to cause birth defects or other reproductive

harm: None

European Community Regulations

The content and format of this Material Safety Data Sheet are in accordance with Commission Directive 2001/58/EC, amending for the second time Commission Directive 91/155/EEC.

European Community Label Requirements

Danger Symbol(s) F+







S-Phrase(s) S16: Keep away from sources of ignition - No smoking

S23: Do not breathe gas/fumes/vapor/spray

S24: Avoid contact with skin

S46: If swallowed, seek medical advice immediately and show this container or label

S47: Keep at temperature not exceeding 49°C (120°F)

S51: Use only in well-ventilated areas

S61: Avoid release to the environment. Refer to special instructions/safety data sheet

S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

R-Phrase(s)
R12: Extremely flammable

R38: Irritating to skin

R44: Risk of explosion if heated under confinement

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R67: Vapors may cause drowsiness and dizziness

Note: Preparations classified as harmful on the basis of an aspiration hazard need not be labeled as harmful with R65 when placed on the market in aerosol containers or in containers fitted with a sealed spray attachment (EU Directive 67/548/EEC Annex

VI, 9.4).

WODO

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Section 16. Other Information

Component R-Phrase(s) R11: Highly flammable

R12: Extremely flammable

R38: Irritating to skin

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R65: Harmful: may cause lung damage if swallowed

R67: Vapors may cause drowsiness and dizziness

HMIS® Ratings Health: 1 Fire: 4 Physical Hazard: 0

HMIS® Ratings: 0 = Minimal Hazard; 1 = Slight Hazard; 2 = Moderate Hazard; 3 = Serious Hazard; 4 = Severe Hazard

Abbreviations that May Be N/A = Not available

Used in this Document N/E = Not established

Sections Revised New MSDS format

Revision Date 9/2/2008

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*** END OF MSDS ***