

EZ Grip Friction Drops[®] Aircraft Grade



Safety Data Sheet

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Version: Rev. 1

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1. Product and Company Identification

1.1 Product identifiers

Product Name: EZ Grip Friction Drops[®] Aircraft Grade
Producer: Holt International, LLC
Product Number: EZ59183
CAS-No.: Not available.

1.2 Identified uses of the product and uses advised against

Identified Uses: Functional working fluid (aircraft grade).

1.3 Details of the chemical supplier

Company: Holt International, LLC
42211 Garfield Rd
Suite 333
Clinton Township, MI 48038
USA
Telephone: +1 586-907-1592
Fax: +1 941-505-2689

1.4 Emergency telephone number

+1 800-650-6456

2. Hazards Identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None.

3. Composition/Information on Ingredients

3.1 Product mixture

Synonyms: Functional working fluid mixture.
Formula: Not available.
Molecular Wt: Not available.
CAS-No.: Not available.
EC-No.: Not available.

Ingredients	CAS-No.	EC-No.	Classification	Concentration
Aluminum oxide	1344-28-1	215-691-6	Not hazardous	49-50 %
Propylene glycol	57-55-6	200-338-0	Not hazardous	40-41 %
Water	7732-18-5	231-791-2	Not hazardous	7-8 %
Poly(propylene glycol)	25322-69-4	500-039-8	Not hazardous	2-3 %
Sodium benzoate	532-32-1	208-534-8	Eye irrit. 2A; H319	0-1.5 %

4. First Aid Measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

Skin exposure

Wash off with soap and water. Consult a physician.

Eye exposure

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water and consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5. Fire Fighting Measures

5.1 Suitable (and unsuitable) extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Specific hazards arising from the chemical

No data available.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 References to other sections

For disposal see section 13.

7. Handling and Storage

7.1 General hygiene considerations

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions see section 2.2.

7.2 Precautions for safe handling

Keep container tightly closed in a dry and well-ventilated place.

7.3 Conditions for safe storage, including any incompatibilities

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure Controls/Personal Protection

8.1 Control and exposure limits recommended by the chemical manufacturer

Component	CAS-No.	Value	Control Params.	Basis
Propylene glycol	57-55-6	TWA	10 mg/m ³	USA WEEL
Aluminum oxide	1344-28-1	TWA	15 mg/m ³	USA Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
		TWA	5 mg/m ³	USA Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
		TWA	1 mg/m ³	USA ACGIH Threshold Limit Values (TLV)

8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3 Individual protection measures, such as personal protective equipment

All personnel handling the product should use a personal protective equipment level D.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a) Appearance	Brown paste.
b) Odor	Odorless.
c) Odor threshold	No data available.
d) pH	No data available.
e) Melting/freezing point	No data available.
f) Boiling point	>100°C (>212°F)
g) Flash point	No data available.
h) Evaporation rate	No data available.
i) Flammability (solid, gas)	Non-flammable
j) Upper/lower flammability or explosive limits	Upper (UEL): No data available. Lower (LEL): No data available.
k) Vapor pressure	No data available.
l) Vapor density	No data available.
m) Relative density	1.65 g/cm ³ at 25°C (77°F)
n) Water solubility	Appreciable.
o) Partition coefficient: octanol/water	No data available.
p) Auto-ignition temp	No data available.
q) Decomposition temp	No data available.

r) Viscosity >1.0 cP at 25°C (77°F)

10. Stability and Reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under ordinary conditions of use and storage.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Contact with incompatible chemicals and exposure to extremely high temperatures.

10.5 Incompatible materials

Strong oxidizers, strong acids, acid chlorides, acid anhydrides, chloroformates, or strong reducing agents.

10.6 Hazardous decomposition products

Mainly carbon dioxide and carbon monoxide.

11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

For the major component propylene glycol

LD50 oral, rat:	20,000 mg/kg
LD50 dermal, rabbit:	20,800 mg/kg
LD50 intramuscular, rat:	14 g /kg
LD50 intravenous, dog:	26 g/kg
LD50 intraperitoneal, rat:	6,600 mg/kg
LD50 subcutaneous, rat:	22,500 mg/kg
LD50 intravenous, rat:	6,423 mg/kg
LD50 intraperitoneal, mouse:	9,718 mg/kg; Remarks: Lungs, Thorax; Respiration: chronic pulmonary edema; Kidney, Ureter, Bladder: changes in both tubules and glomeruli; Blood: changes in spleen.
LD50 subcutaneous, mouse:	17,370 mg/kg; Remarks: Behavioral: change in motor activity (specific assay); Behavioral: muscle contraction or spasticity; Cyanosis.
LD50 intravenous, mouse:	6,630 mg/kg
LD50 intravenous, rabbit:	6,500 mg/kg

For the major component aluminum oxide

LD50 oral, rat: >10,000 mg/kg (OECD Test Guideline 401)

Skin corrosion/irritation

Propylene glycol: Skin – human. Result: mild skin irritation, 7d.

Serious eye damage/eye irritation

Propylene glycol: Eyes – rabbit. Result: mild eye irritation.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Suspected cancer agent

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH, NTP, OSHA, or IARC.

Reproductive toxicity

This product is not reported to produce mutagenic, embryotoxic, teratogenic, or reproductive effects in humans.

Specific target organ toxicity – single exposure

No data available.

Specific target organ toxicity – repeat exposure

No data available.

12. Ecological Information**12.1 Ecotoxicity (aquatic and terrestrial)**

This product may be harmful to aquatic life if large quantities are released into bodies of water.

For the major component propylene glycol

Toxicity to fish: Mortality NOEC – Pimephales promelas (fathead minnow) – 52,930 mg/L, 96h.

Toxicity to invertebrates: Mortality NOEC – Daphnia – 13,020 mg/L, 48h.

EC50 – Daphnia magna (water flea) – 13,020 mg/L, 48h.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulation potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

None.

13. Disposal Considerations**13.1 Waste treatment methods**

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

14. Transport Information**DOT (US)**

Not dangerous goods.

IMDG

Not dangerous goods.

IATA

Not dangerous goods.

15. Regulatory Information**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

Aluminum oxide, CAS-No. 1344-28-1, Revision date: 1994-04-01.

SARA 311/312 Hazards

Aluminum oxide, CAS-No. 1344-28-1: chronic health hazard.

Sodium benzoate, CAS-No. 532-32-1: acute health hazard.

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other Information

HMIS Rating

Health hazard: 0

Chronic Health Hazard: 0

Flammability: 0

Physical Hazard 0

NFPA Rating

Health hazard: 0

Fire Hazard: 0

Reactivity Hazard: 0

Revision Date

24 March 2016

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