EZ Grip Friction Drops© Aircraft Grade

Safety Data Sheet

GET AN EZ GRIP with FRICTION DROPS

Revision date: 19 September 2019
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Version: Rev.4 (This Product Does Not Contain Any VOC, (Volatile Organic Compounds)

1. Product and Company Identification

1.1 Product identifiers

Product Name: EZ Grip Friction Drops© Aircraft Grade
Producer: Holt International, LLC
Product Number: Not available.
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
19800 Veterans Blvd, B-1
Bldg. 1
Port Charlotte, Fl. 33954
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 according to GHS

GHS class: Not a hazardous substance or mixture

Classification according to Regulation (EC) No 1272/2008

1272/2008 class: Based on present data no classification and labelling is required according to Directive 1272/2008/EC and its amendments (CLP Regulation, GHS)

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

67/548/EEC class: According to present data no classification and labelling is required according to Directives 67/548/EEC

1999/45/EC class: According to present data no classification and labelling is required according to Directives 1999/45/EC

Information concerning particular hazards for human and environment

No particular hazards for human and environment.

Classification system

The classification is according to the latest editions and extended by company and literature data.

2.2 GHS Label elements, including precautionary statements

GHS pictograms: None
Signal word: None
Hazard statements: None
Precautionary statements: None

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

NFPA ratings (scale 0 – 4)

0

HMIS ratings (scale 0 – 4)

0

hazard - 0

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

Complete toxicity data are not available for this specific formulation.

Potential route of overexposure to this product may include eye and skin contact, and inhalation of excessive amounts of dust or heat-released vapors. Ingestion is not expected to be a significant route of exposure for this product under normal use conditions.

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/m³	USA WEEL
		TWA	10 mg/m³	EH40 (UK) WELs
Aluminum oxide	1344-28-1	TWA	15 mg/m³	USA Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
		TWA	5 mg/m³	USA Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
		TWA	1 mg/m³	USA ACGIH Threshold Limit Values (TLV)
		TWA	4 mg/m³	EH40 (UK) WELs – Respirable dust
		TWA	10 mg/m³	EH40 (UK) WELs – Total dust

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)	No data available.
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:	Morality 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.
TSCA	All components of this product are on the TSCA inventory or are exempt from TSCA inventory requirements.
Canada DSL	All components of this product are on the Canada Domestic Substance List or are exempt from DSL requirements.
WHMIS classification	No ingredients are hazardous according to the CPR criteria.
CA 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.
Hazard symbols	None
Risk phrases	None
Safety phrases	None
International lists	Australia - AICS - The materials are listed or exempted
	Canada - The materials are listed or exempted
	China - IECSC - The materials are listed or exempted
	Europe - EINECS - The materials are listed or exempted
	Japan - ENCS/ISHL - The materials are listed or exempted
	Malaysia - The materials are listed or exempted
	New Zealand - NZIoC - The materials are listed or exempted
	Philippines - PICCS - The materials are listed or exempted
	Korea - KECI - The materials are listed or exempted
	Taiwan - NECI - The materials are listed or exempted
	Turkey - The materials are listed or exempted
	United States - The materials are listed or exempted

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

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