

X-Foliate Polishing Fluid

REV. #1 - GHS/US SDS
01/11/2023

Safety Data Sheet

According to 29CFR 1910.1200 OSHA Hazard Communication Standard
Issue date: 1/11/2023 Revision date: 6/23/2022 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : X-Foliate Polishing Fluid

1.2. Recommended use and restrictions on use

Recommended use : Abrasive and polishing compound
Restrictions on use : All other uses

1.3. Supplier

Ammo Auto Care, Inc.
7 Brush Hill Road
New Fairfield, CT
06812
T 1-800-535-5063

1.4. Emergency telephone number

Emergency number : USA: 1-800-535-5053
INT: 1-352-323-3500 (24/7 emergency number)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

| | | |
|--|------|---|
| Flammable liquids Category 4 | H227 | Combustible liquid |
| Hazardous to the aquatic environment – Acute Hazard Category 3 | H402 | Harmful to aquatic life |
| Hazardous to the aquatic environment – Chronic Hazard Category 3 | H412 | Harmful to aquatic life with long lasting effects |

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Signal word (GHS US) : Warning
Hazard statements (GHS US) : H227 - Combustible liquid
H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 - Avoid release to the environment.
P280 - Wear protective gloves.
P370+P378 - In case of fire: Use carbon dioxide (CO₂), extinguishing powder, foam to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents/container to an approved waste disposal plant.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

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SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % |
|-------------------------------|--------------------|---------|
| White Mineral Oil (Petroleum) | CAS-No.: 8042-47-5 | 10 – 30 |
| Aluminum Oxide | CAS-No.: 1344-28-1 | 5 – 10 |
| Glycerin | CAS-No.: 56-81-5 | 1 – 5 |
| Triethanolamine | CAS-No.: 102-71-6 | 1 – 5 |

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| First-aid measures after inhalation | : Move the affected person to fresh air. Get medical attention if symptoms occur. |
| First-aid measures after skin contact | : Gently wash with plenty of soap and water. Get medical advice if skin irritation persists. |
| First-aid measures after eye contact | : Rinse eyes with water as a precaution. Get medical attention if irritation develops and persists. |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell. |

4.2. Most important symptoms and effects (acute and delayed)

| | |
|------------------|--|
| Symptoms/effects | : May cause slight temporary irritation. |
| Inhalation | : May cause minor irritation to the respiratory tract and to other mucous membranes. |
| Skin | : May cause slight irritation to the skin. |
| Eyes | : May cause minor eye irritation. |
| Ingestion | : May cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

4.3. Immediate medical attention and special treatment, if necessary

Not required.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Carbon dioxide (CO ₂). Dry powder. Foam. |
| Unsuitable extinguishing media | : Do not use water jet. |

5.2. Specific hazards arising from the chemical

| | |
|--|--------------------------------|
| Fire hazard | : Combustible liquid. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

5.3. Special protective equipment and precautions for fire-fighters

| | |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. |
|--------------------------------|--|

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|--|
| General measures | : Wear suitable protective clothing. Avoid contact with eyes, skin and clothing. |
|------------------|--|

6.1.1. For non-emergency personnel

No additional information available

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6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Take up liquid spill into absorbent material. Wipe up with absorbent material (for example cloth).
Other information : Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with eyes, skin and clothing. Wash hands with water and soap. Ensure adequate ventilation.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : No special storage required.
Incompatible materials : Strong oxidizers. None known.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| X-Foliate Polishing Fluid | |
|--|--|
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Fuel oil No. 2, as total hydrocarbons |
| ACGIH OEL TWA | 100 mg/m ³ (IFV - Inhalable fraction and vapor) |
| Remark (ACGIH) | TLV® Basis: Dermatitis. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans) |
| Regulatory reference | ACGIH 2022 |
| Triethanolamine (102-71-6) | |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Triethanolamine |
| ACGIH OEL TWA | 5 mg/m ³ |
| Remark (ACGIH) | TLV® Basis: Eye & skin irr |
| Regulatory reference | ACGIH 2021 |
| Glycerin (56-81-5) | |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 10 mg/m ³ |

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| Glycerin (56-81-5) | |
|---|--|
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Glycerin (mist) |
| OSHA PEL (TWA) | 15 mg/m ³ (Total dust) 5 mg/m ³ (Respirable fraction) |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |
| Aluminum Oxide (1344-28-1) | |
| USA - OSHA - Occupational Exposure Limits | |
| Local name | alpha-Alumina |
| OSHA PEL (TWA) | 15 mg/m ³ |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |
| White Mineral Oil (Petroleum) (8042-47-5) | |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Mineral oil, excluding metal working fluids Pure, highly and severely refined |
| ACGIH OEL TWA | 5 mg/m ³ (I - Inhalable particulate matter) |
| Remark (ACGIH) | TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen) |
| Regulatory reference | ACGIH 2021 |
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Oil mist, mineral |
| OSHA PEL (TWA) | 5 mg/m ³ |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

8.2. Appropriate engineering controls

Appropriate engineering controls : No particular/specific measures required.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

| |
|---|
| Hand protection: |
| Wear suitable gloves |
| Eye protection: |
| Use suitable eye protection |
| Skin and body protection: |
| Wear suitable protective clothing |
| Respiratory protection: |
| In case of insufficient ventilation, wear suitable respiratory equipment. In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : White Paste.
Color : White

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| | |
|---|-------------------------------|
| Odor | : Characteristic |
| Odor threshold | : No data available |
| pH | : 8.5 – 9.5 |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : 70 – 72 °C (158 – 161.6 °F) |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : Not applicable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20°C | : No data available |
| Relative density | : No data available |
| Solubility | : Partially soluble. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : > 20.5 mm ² /s |
| Viscosity, dynamic | : No data available |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight.

10.5. Incompatible materials

Oxidizing agent. None known.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂). Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| Triethanolamine (102-71-6) | |
|----------------------------|--------------|
| LD50 oral rat | 6400 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |

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| Triethanolamine (102-71-6) | |
|--|---|
| ATE US (oral) | 6400 mg/kg body weight |
| Glycerin (56-81-5) | |
| LD50 oral rat | 27200 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Female, Experimental value, Oral) |
| LD50 oral | 25000 mg/kg body weight |
| LD50 dermal | 56750 mg/kg (4 day(s), Guinea pig, Male / female, Experimental value, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat | > 2.75 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Converted value, Inhalation (vapours)) |
| LC50 Inhalation - Rat (Dust/Mist) | 50100 mg/l |
| LC50 Inhalation - Rat (Vapours) | > 2.75 mg/l Source: ECHA |
| ATE US (oral) | 25000 mg/kg body weight |
| ATE US (dermal) | 56750 mg/kg body weight |
| ATE US (dust, mist) | 50100 mg/l/4h |
| Aluminum Oxide (1344-28-1) | |
| LD50 oral rat | > 5000 mg/kg |
| LC50 Inhalation - Rat | > 7.6 mg/l 1 h |
| White Mineral Oil (Petroleum) (8042-47-5) | |
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 Inhalation - Rat (Dust/Mist) | > 5 mg/l/4h No mortality |
| Skin corrosion/irritation | : Not classified pH: 8.5 – 9.5 |
| Serious eye damage/irritation | : Not classified pH: 8.5 – 9.5 |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Triethanolamine (102-71-6) | |
| NOAEL (chronic,oral,animal/male,2 years) | 63 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 451 (Carcinogenicity Studies) |
| IARC group | 3 - Not classifiable |
| Reproductive toxicity | : Not classified |
| Aluminum Oxide (1344-28-1) | |
| NOAEL (animal/male, F0/P) | 1000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Triethanolamine (102-71-6) | |
| NOAEL (oral,rat,90 days) | 1000 mg/kg body weight |
| Aluminum Oxide (1344-28-1) | |
| NOAEC (inhalation,rat,dust/mist/fume,90 days) | 0.07 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) |

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| White Mineral Oil (Petroleum) (8042-47-5) | |
|---|--|
| NOAEL (oral,rat,90 days) | ≥ 1200 mg/kg body weight |
| Aspiration hazard | : Not classified |
| Viscosity, kinematic | : > 20.5 mm ² /s |
| Triethanolamine (102-71-6) | |
| Viscosity, kinematic | 830.222 mm ² /s |
| Glycerin (56-81-5) | |
| Viscosity, kinematic | 1119.746 mm ² /s |
| White Mineral Oil (Petroleum) (8042-47-5) | |
| Viscosity, kinematic | > 3 mm ² /s |
| Hydrocarbon | Yes |
| Symptoms/effects | : May cause slight temporary irritation. |
| Inhalation | : May cause minor irritation to the respiratory tract and to other mucous membranes. |
| Skin | : May cause slight irritation to the skin. |
| Eyes | : May cause minor eye irritation. |
| Ingestion | : May cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects. Avoid release to the environment. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

| Triethanolamine (102-71-6) | |
|---|---|
| LC50 - Fish [1] | 11800 mg/l Pimephales promelas (Fathead minnow) |
| EC50 - Crustacea [1] | 609.88 mg/l Ceriodaphnia dubia |
| EC50 72h - Algae [1] | 512 mg/l Desmodesmus subspicatus |
| EC50 72h - Algae [2] | 216 mg/l Desmodesmus subspicatus |
| NOEC chronic fish | > 1 mg/l |
| Glycerin (56-81-5) | |
| LC50 - Fish [1] | 54000 mg/l (96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Lethal) |
| EC50 - Crustacea [1] | > 10000 mg/l (24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect) |
| EC50 - Other aquatic organisms [1] | > 10000 mg/l waterflea |
| EC50 - Other aquatic organisms [2] | > 10000 mg/l |
| Aluminum Oxide (1344-28-1) | |
| EC50 72h - Algae [1] | 1.05 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2] | 0.2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| White Mineral Oil (Petroleum) (8042-47-5) | |
| LC50 - Fish [1] | > 100 mg/l |
| EC50 - Crustacea [1] | > 100 mg/l |

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12.2. Persistence and degradability

Glycerin (56-81-5)

Not rapidly degradable

| | |
|---------------------------------|-------------------------------------|
| Persistence and degradability | Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 0.87 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 1.16 g O ₂ /g substance |
| ThOD | 1.217 g O ₂ /g substance |
| BOD (% of ThOD) | 0.71 |

12.3. Bioaccumulative potential

Glycerin (56-81-5)

| | |
|---|--|
| Partition coefficient n-octanol/water (Log Pow) | -1.75 (Experimental value, Equivalent or similar to OECD 107, 25 °C) |
| Bioaccumulative potential | Not bioaccumulative. |

12.4. Mobility in soil

Glycerin (56-81-5)

| | |
|-----------------|---|
| Surface tension | 0.0634 N/m (20 °C, 1000 g/l) |
| Ecology - soil | No (test)data on mobility of the substance available. |

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

| | |
|------------------------------|---|
| Regional legislation (waste) | : Dispose of in accordance with applicable federal, state, and local regulations. |
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

| DOT | TDG | IMDG | IATA |
|--|----------------|----------------|----------------|
| 14.1. UN number | | | |
| NA1993 | Not applicable | Not applicable | Not applicable |
| 14.2. Proper Shipping Name | | | |
| Combustible liquid, n.o.s. (Hydrocarbons) | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | |
| Combustible liquid | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | |
| III | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | |
| Dangerous for the environment: No | Not applicable | Not applicable | Not applicable |

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| DOT | TDG | IMDG | IATA |
|--|-----|------|------|
| No supplementary information available | | | |

14.6. Special precautions for user

| | |
|--|---|
| DOT | |
| UN-No.(DOT) | : NA1993 |
| DOT Special Provisions (49 CFR 172.102) | : 148 - For domestic transportation, this entry directs to § 173.66 for: a. The standards for transporting a single bulk hazardous material for blasting by cargo tank motor vehicles (CTMV); and b. The standards for CTMVs capable of transporting multiple hazardous materials for blasting in bulk and non-bulk packagings (i.e., a multipurpose bulk truck (MBT)). IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : 150 |
| DOT Packaging Non Bulk (49 CFR 173.xxx) | : 203 |
| DOT Packaging Bulk (49 CFR 173.xxx) | : 241 |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 60 L |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | : 220 L |
| DOT Vessel Stowage Location | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel. |

TDG
No data available

IMDG
No data available

IATA
No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

| | | |
|----------------|-------------------|---------|
| Aluminum Oxide | CAS-No. 1344-28-1 | 5 – 10% |
|----------------|-------------------|---------|

15.2. International regulations

CANADA

| |
|---|
| Triethanolamine (102-71-6) |
| Listed on the Canadian DSL (Domestic Substances List) |

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Glycerin (56-81-5)

Listed on the Canadian DSL (Domestic Substances List)

Aluminum Oxide (1344-28-1)

Listed on the Canadian DSL (Domestic Substances List)

White Mineral Oil (Petroleum) (8042-47-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

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All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

| Component | State or local regulations |
|---------------------------|--|
| Triethanolamine(102-71-6) | U.S. - New Jersey - Right to Know Hazardous Substance List |
| Glycerin(56-81-5) | U.S. - New Jersey - Right to Know Hazardous Substance List |
| Aluminum Oxide(1344-28-1) | U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - New Jersey - Right to Know Hazardous Substance List |

SECTION 16: Other information

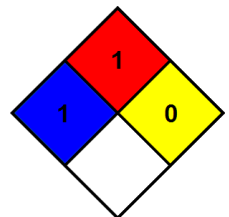
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Revision date : 6/23/2022

Full text of H-phrases

| | |
|------|---|
| H227 | Combustible liquid |
| H402 | Harmful to aquatic life |
| H412 | Harmful to aquatic life with long lasting effects |

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating
Health : 1 Slight Hazard
Flammability : 1 Slight Hazard
Physical : 0 Minimal Hazard

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|-------------------------------|
| Indication of changes: |
|-------------------------------|

| |
|--------------|
| new version. |
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Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.