

# FLIGHT SHIELD



## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

**Material name** Solo Polishing Compound

**Version #** 1.0

**Revision date** 03-31-2014

**CAS #** Mixture

**Product use** professional use

#### **Manufacturer**

**Company name** Flight Shield Inc.

#### **Address**

65 North River Lane

Suite 201

Geneva IL. 60134

www.flightshield.com

info@flightshield.com

**Contact person** Dustin Zeitler

**Telephone number** 1-888-798-3206

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**Emergency telephone number** 1-888-798-3206

### 2. Hazards Identification

**Emergency overview** CAUTION

Combustible liquid and vapor.

Harmful in contact with eyes. Cancer hazard. Prolonged exposure may cause chronic effects.

**OSHA regulatory status** This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

#### **Potential health effects**

**Routes of exposure** Inhalation. Ingestion. Skin contact. Eye contact.

**Eyes** Eye contact may result in corneal injury. Contact may irritate or burn eyes. Do not get this material in contact with eyes.

**Skin** May be harmful if absorbed through skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Do not get this material in contact with skin.

**Inhalation** May cause cancer by inhalation. Prolonged inhalation may be harmful. Avoid breathing dust/fume/gas/mist/vapors/spray.

**Ingestion** Components of the product may be absorbed into the body by ingestion. Do not ingest.

**Target organs** Eyes. Kidneys. Respiratory system. Skin.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.

**Chronic effects** Conjunctiva. Edema. May be harmful if absorbed through skin. Kidney injury may occur. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

**Signs and symptoms** Corneal damage. Edema. Conjunctivitis. Proteinuria. Defatting of the skin. Skin irritation. Rash.

#### **Components CAS # Percent**

### 3. Composition / Information on Ingredients

Aluminiumoxid 1344-28-1 <= 50

Hydrotreated Light Paraffinic Distillate (< 3% DMSO extract) 64742-55-8 <= 15

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Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (< 919-164-8 <= 10, 0,1 % benzene)

Glycerol 56-81-5 <= 2  
2,2',2''-nitritotriet hanol 102-71-6 <= 1

#### 4. First Aid Measures

##### First aid procedures

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

**Skin contact** Take off immediately all contaminated clothing. Wash off with warm water and soap. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention if irritation develops and persists.

**Inhalation** Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention if symptoms occur.

**Ingestion** Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If ingestion of a large amount does occur, call a poison control center immediately.

**Notes to physician** In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General advice** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. IF exposed or concerned: Get medical advice/attention. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.

#### 5. Fire Fighting Measures

**Flammable properties** Combustible by OSHA criteria. NFPA Rating Fire = 2. Materials that must be moderately heated

or exposed to relative high ambient temperatures before ignition can occur. Heat may cause the containers to explode. Runoff to sewer may cause fire or explosion hazard.

##### Extinguishing media

##### Suitable extinguishing media

Water fog. Carbon dioxide (CO<sub>2</sub>). Alcohol resistant foam. Powder.

##### Unsuitable extinguishing media

Do not use water jet.

##### Protection of firefighters

##### Protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection.

##### Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. ALWAYS stay away from tanks engulfed in flame. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Water runoff can cause environmental damage.

**Specific methods** In the event of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk.

#### 6. Accidental Release Measures

**Personal precautions** Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch

damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Keep people away from and upwind of spill/leak. Keep upwind. Keep out of low areas. Surfaces may become slippery after spillage. Remove sources of

ignition.

**Environmental precautions** Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

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**Methods for containment** ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Stop the

flow of material, if this is without risk. Dike the spilled material, where this is possible. Use water spray to reduce vapors or divert vapor cloud drift. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

**Methods for cleaning up** Extinguish all flames in the vicinity.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.

## 7. Handling and Storage

**Handling** DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. All equipment used when handling the product must be grounded. Do not get this material in contact with eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Avoid contact with skin. Wear personal protective equipment. Do not empty into drains. Repeated exposure may cause skin dryness or cracking. Use only in well-ventilated areas. Avoid release to the environment.

**Storage** The pressure in sealed containers can increase under the influence of heat. Keep away from heat and sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Keep containers tightly closed in a cool, well-ventilated place. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Keep container tightly closed. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children. Store above freezing. Storage Temperature: Between 15 °C and 25 °C.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

##### Components Type Value Form

2,2',2''-ni trilo triet hanol TWA 5 mg/m<sup>3</sup>  
(102-71-6)

Aluminiumo xid (1344-28-1) TWA 1 mg/m<sup>3</sup> Respirable fraction.

Glycerol (56-81-5) TWA 10 mg/m<sup>3</sup> Mist.

Hydrotreate d Light TWA 5 mg/m<sup>3</sup> Inhalable fraction.

Paraffinic Distillate (< 3%

DMSO extract)

(64742-55-8)

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

##### Components Type Value Form

Aluminiumo xid (1344-28-1) PEL 5 mg/m<sup>3</sup> Respirable fraction.

15 mg/m<sup>3</sup> Total dust.

Glycerol (56-81-5) PEL 5 mg/m<sup>3</sup> Respirable fraction.

15 mg/m<sup>3</sup> Total dust.

Hydrotreate d Light PEL 5 mg/m<sup>3</sup> Mist.

Paraffinic Distillate (< 3%

DMSO extract)

(64742-55-8)

**Engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation,

or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Personal protective equipment**

**Eye / face protection** Do not get in eyes. Chemical goggles are recommended. Eye wash fountain is recommended. Safety glasses.

**Skin protection** Wear appropriate chemical resistant clothing. Chemical resistant gloves.

**Hand protection** Use protective gloves.

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**Respiratory protection** Wear positive pressure self-contained breathing apparatus (SCBA).

**General hygiene considerations**

When using do not smoke. Do not get in eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical & Chemical Properties

**Appearance** Not available.

**Physical state** Liquid.

**Form** Viscous.

**Color** Not available.

**Odor** Not available.

**Odor threshold** Not available.

**pH** 7 - 9

**Vapor pressure** Not available.

**Vapor density** Not available.

**Boiling point** > 212 °F (> 100 °C)

**Melting point/Freezing point** Not available.

**Solubility (water)** Not available.

**Specific gravity** Not available.

**Relative density** Not available.

**Flash point** > 149 °F (> 65 °C)

**Flammability limits in air, upper,**

**% by volume**

Not available.

**Flammability limits in air, lower,**

**% by volume**

Not available.

**Auto-ignition temperature** Not available.

**VOC** 15 %

**Viscosity** > 20.5 mm<sup>2</sup>/s @ 40°C

**Other data**

**Density** 1 g/ml

## 10. Chemical Stability & Reactivity Information

**Chemical stability** Risk of ignition.

**Conditions to avoid** Heat, flames and sparks. Avoid temperatures exceeding the flash point.

**Incompatible materials** Acids. Chlorine.

**Hazardous decomposition products**

Nitrogen oxides (NO<sub>x</sub>).

**Possibility of hazardous reactions**

Hazardous polymerization does not occur.

**Toxicological data**

## 11. Toxicological Information

**Components Test Results**

2,2',2''-nitritotriethanol (102-71-6) Acute Dermal LD50 Rabbit: > 20000 mg/kg

Acute Oral LD50 Guinea pig: 5300 mg/kg

Acute Oral LD50 Rat: 8 g/kg

Acute Other LD50 Mouse: 1450 mg/kg

Aluminiumoxid (1344-28-1) Acute Dermal LD50 >= 5000 mg/kg

Acute Inhalation LC50 >= 1000 mg/l 4 hours

Acute Oral LD50 >= 5000 mg/kg

**Local effects** Components of the product may be absorbed into the body through the skin. Contact may irritate or burn eyes.

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**Chronic effects** Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged exposure may cause chronic effects.

**Subchronic effects** Kidney injury may occur.

**Carcinogenicity** Hazardous by OSHA criteria.

#### **ACGIH Carcinogens**

Aluminiumoxid (CAS 1344-28-1) A4 Not classifiable as a human carcinogen.

Hydrotreated Light Paraffinic Distillate (< 3% DMSO extract) (CAS 64742-55-8)

A2 Suspected human carcinogen.

A4 Not classifiable as a human carcinogen.

#### **IARC Monographs. Overall Evaluation of Carcinogenicity**

2,2',2''-nitrioltriethanol (CAS 102-71-6) 3 Not classifiable as to carcinogenicity to humans.

#### **US NTP Report on Carcinogens: Known carcinogen**

Hydrotreated Light Paraffinic Distillate (< 3% DMSO extract) (CAS 64742-55-8)

Known To Be Human Carcinogen.

**Skin corrosion/irritation** Defatting, drying and cracking of skin.

**Further information** Symptoms may be delayed.

#### **Ecotoxicological data**

### **12. Ecological Information**

#### **Components Test Results**

EC50 Water flea (Ceriodaphnia dubia): 565.2 - 658.3 mg/l 48 hours

2,2',2''-nitrioltriethanol (102-71-6)

LC50 Fathead minnow (Pimephales promelas): 10610 - 13010 mg/l 96 hours

Aluminiumoxid (1344-28-1) NOEC Algae: >= 100 mg/l 72 hours

NOEC Daphnia: >= 100 mg/l 48 hours

NOEC Trout family (Salmonidae): >= 100 mg/l 96 hours

LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss): 51000 - 57000 mg/l 96 hours

Glycerol (56-81-5)

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

#### **Persistence and**

#### **degradability**

Not available.

### **13. Disposal Considerations**

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This product,

in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

### **14. Transport Information**

#### **DOT**

Not regulated as dangerous goods.

## 15. Regulatory Information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2))**  
Not regulated

**DEA Essential Chemical Code Number**

Not regulated

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

Not regulated

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**DEA Exempt Chemical Mixtures Code Number**

Not regulated

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration**

Aluminiumoxid (CAS 1344-28-1) 1.0 %

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance**

Aluminiumoxid (CAS 1344-28-1) Listed.

**CERCLA (Superfund) reportable quantity**

None

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - Yes

Fire Hazard - Yes

Pressure Hazard - No

Reactivity Hazard - No

**Section 302 extremely hazardous substance**

No

**Section 311 hazardous chemical**

No

**Inventory status**

**Country(s) or region Inventory name On inventory (yes/no)\***

Australia Australian Inventory of Chemical Substances (AICS) Yes

Canada Domestic Substances List (DSL) Yes

Canada Non-Domestic Substances List (NDSL) No

China Inventory of Existing Chemical Substances in China (IECSC) Yes

Europe European Inventory of Existing Commercial Chemical Substances (EINECS) Yes

Europe European List of Notified Chemical Substances (ELINCS) No

Japan Inventory of Existing and New Chemical Substances (ENCS) No

Korea Existing Chemicals List (ECL) Yes

New Zealand New Zealand Inventory Yes

Philippines Philippine Inventory of Chemicals and Chemical Substances Yes (PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**State regulations** California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**US - New Jersey RTK - Substances: Listed substance**

2,2',2''-nitrilotriethanol (CAS 102-71-6) Listed.

Aluminiumoxid (CAS 1344-28-1) Listed.

Glycerol (CAS 56-81-5) Listed.

Hydrotreated Light Paraffinic Distillate (< 3% DMSO extract) (CAS 64742-55-8)

Listed.

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

2,2',2''-nitrilotriethanol (CAS 102-71-6) Listed.

Aluminiumoxid (CAS 1344-28-1) Listed.  
Glycerol (CAS 56-81-5) Listed.  
Hydrotreated Light Paraffinic Distillate (< 3% DMSO  
extract) (CAS 64742-55-8)  
Listed.

## 16. Other Information

### Further information

**HMIS® ratings** Health: 1\*

Flammability: 2

Physical hazard: 0

**NFPA ratings** Health: 1

Flammability: 2

Instability: 0

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**Disclaimer** The information in the sheet was written based on the best knowledge and experience currently available.

**Issue date** Not available.

**This data sheet contains  
changes from the previous  
version in section(s):**

Product and Company Identification: Product and Company Identification

Composition / Information on Ingredients: Ingredients

Physical & Chemical Properties: Multiple Properties

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