

Extreme Simple Green® Aviation Cleaner & Heavy Duty Degreaser

SAFETY DATA SHEET in accordance with REGULATION (EC) No 1907/2006 & (EC) No 453/2010

1 IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Product Identifier: Extreme Simple Green® Aviation Cleaner & Heavy Duty Degreaser

Manufacturer Numbers: Please see Section 16

Relevant identified uses of mixture: Cleaning & Degreasing Agent

Relevant identified uses advised against: Surfaces not tolerate degreasing agents and non-rinsable surfaces.

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2 HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008 [CLP] : Not yet classified according to EC No. 1272/2008, formula will be assessed by June 2015 deadline.

Classification according to Directive 1999/45/EC : Irritant. (Xi), R36 – Irritating to eyes.

Label Elements

Signal Word: Not yet determined

Hazard Statements: Not yet determined.

Precautionary Statements: Not yet determined

Supplemental Hazard Information: Not applicable

Hazard Pictograms: Not yet determined

Other Hazards: None known.

3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>CAS No.</u>	<u>EC No.</u>	<u>CLP Annex VI</u>		<u>% weight</u>	<u>Name</u>	<u>Classification According to</u>	
		<u>Index No.</u>	<u>REACH No.</u>			<u>67/548/EEC</u>	<u>1272/2008</u>
102-71-6	203-049-8	-	Pre-registered	1-10%	Triethanolamine	Xi: R36	H319
68439-46-3	614-482-0	-	Pre-registered	1-10%	C9-C11 Ethoxylated Alcohol	Xn: R22, Xi: R41	H302, H318
5131-66-8	225-878-4	-	Pre-registered	1-5%	1-butoxy-2-propanol	Xi:R36/R38	H315, H319

For full text of H statements, R statements and symbols see section 16

4 FIRST AID MEASURES

General Notes: When diluting Extreme Simple Green 1:1 or more, the solution is no longer classified as an “eye irritant”.

Following Inhalation: Move to fresh air in case of inhalation overexposure. If coughing or irritation persists consult a physician.

Following Skin Contact: Wash with water. If redness, swelling or persistent irritation occurs consult a physician.

Following Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following Ingestion: Clean mouth with water. Drink plenty of water. Do not induce vomiting. If you feel unwell seek medical advice immediately.

Self-protection of the first aider: Treat Symptomatically.

Acute effects: None known or expected.

Delayed effects: None known or expected.

Immediate medical attention / special treatment: None needed.

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5 FIRE FIGHTING MEASURES

- Suitable Extinguishing Media:** Use dry chemical, CO₂, water spray or "alcohol" foam.
- Unsuitable Extinguishing Media:** High volume water Jet.
- Hazardous combustion products:** No hazards or reactions expected.
- Advice for firefighters:** No special equipment needed for this product. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6 ACCIDENTAL RELEASE MEASURES

- Non-Emergency Personal**
- Protective Equipment:** Use protective goggles.
- Emergency Procedures:** For small and large spills, wipe with absorbent material or soak with absorbent material and dispose of properly – see section 13
- Emergency Responders:** See instructions above.
- Environmental Precautions:** Do not allow into open waterways and ground water systems. Local authorities should be advised if significant spillages cannot be contained.
- Methods for containment:** Dike or divert spill from access to open waterways, or capping of drains.
- Methods for cleaning up:** Soak up with inert absorbent material (i.e. sand).
- Other information:** Refer to section 13 for appropriate disposal.

7 HANDLING AND STORAGE

- Precautions for safe handling**
- Protective Measures:** Avoid spray back and splashing. Keep container tightly closed when not in use.
- Measures to prevent fire:** Not applicable. Non flammable liquid.
- Measure to prevent aerosol and dust generation:** Not applicable.
- Measures to protect environment:** Avoid spills and keep away from drains.
- Advice on general occupational hygiene:** Do not eat, drink and smoke in work area. Wash hands after using. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities

- Technical Measures and storage conditions:** Store in cool dry area. Keep container tightly closed.
- Packing Materials:** Suitable for storage in HDPE and PET plastics.
- Requirements for storage rooms and vessels:** Do not allow to freeze or overheat.

Storage Class - Further information on storage conditions: None needed.

Specific End Uses - Recommendations: Cleaner / Degreaser used manually or with pressure washers and parts washers.

Specific End Uses - Industrial sector specific solutions: See above

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limit Values: Triethanolamine (102-71-6)	Austria -	MAK-KZW 1.6 ppm STEL (4x15 min); 10mg/m ³ STEL; MAK-TMW 0.8 ppm TWA; 5 mg/m ³ TWA
	Belgium –	5 mg/m ³ TWA
	Czech Republic –	5 mg/m ³ TWA
	Denmark –	0.5 ppm TWA; 3.1 mg/m ³ TWA
	Estonia –	10mg/m ³ STEL; 5 mg/m ³ TWA
	Finland –	5 mg/m ³ TWA
	Germany –	5 mg/m ³ TWA MAK; 20 mg/m ³ Peak Ceiling
	Ireland –	5 mg/m ³ TWA

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8 EXPOSURE CONTROLS AND PERSONAL PROTECTION - continued

Exposure Limit Values:	Triethanolamine (102-71-6)	Italy –	5 mg/m ³ TWA
		Lithuania –	10 mg/m ³ STEL (TPRD); 5 mg/m ³ TWA (IPRD)
		Portugal –	5 mg/m ³ TWA (VLE-MP)
		Slovenia –	5 mg/m ³ TWA
		Sweden –	STEL 10 mg/m ³ STV; 1.6 ppm STV; LLV 5 mg/m ³ LLV; 0.8 ppm LLV
	1-butoxy-2-propanol (5131-66-8)	Czech Republic –	550 mg/m ³ Ceiling; 270 mg/m ³ TWA
		Denmark –	100 ppm TLV

Exposure Controls

Appropriate Engineering Controls Avoid spray back and splashing. Keep container tightly closed when not in use.

Personal Protection Equipment

Eye and Face Protection: If splashing is likely use protective glasses or goggles.

Skin Protection - Hands: Not needed. Extended usage with dermally sensitive individuals may require nitrile gloves.

Skin Protection – Other skin protection: Not needed.

Respiratory Protection: Not needed. In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal Hazards: Not needed.

Environmental exposure controls: Do not allow into open waterways and ground water systems.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear Liquid	Vapour Density:	Not tested
Odor:	Chemical/Detergent inherent	Relative Density:	1,022 g/mL
Odor Threshold:	Not determined	Solubility:	100% in water
pH:	10,0 – 11,5	Partition Coefficient:	Not tested
Freezing Point:	0°C (32°F)	Auto-ignition Temperature:	None, see flash point
Boiling Point:	100°C (213°F)	Decomposition Temperature:	Not tested
Flash Point:	None	Viscosity:	Not tested
Evaporation Rate:	Not tested	Explosive Properties:	None, see flash point
Flammability:	None, see flash point	Oxidizing Properties:	None, contains no oxidizers
Vapour Pressure:	Not determined	VOCs CARB Method 310:	2,0%
Upper/Lower Flammability or explosive limits:	Not applicable		

10 STABILITY AND REACTIVITY

Reactivity: Not reactive.

Chemical Stability: Under storage at normal ambient temperatures (minus 40° C to + 40° C), the product is stable

Possibility of Hazardous Reactions: None known.

Conditions to avoid: Excessive heat, light or freezing temperatures

Incompatible Materials: Materials susceptible to degreasing agents.

Hazardous decomposition products: No known hazardous decomposition products.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity (for mixture)- **Oral (LD₅₀, rat, mg/kg):** > 5000¹ **Dermal (LD₅₀, rat, mg/kg):** > 5000¹
Inhalation (LC₅₀, rat, mg/l/4h): Contains no ingredients classifiable in this category

Skin Corrosion /Irritation: Non-irritant.

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11 TOXICOLOGICAL INFORMATION - continued

Serious Eye damage/Irritation: Slight irritant.

Respiratory or skin sensitization: No.¹

Germ cell mutagenicity: No.¹

Summary of evaluation of CMR properties: Not applicable.

STOT-single exposure: No.¹

Aspiration hazard: No.¹

Carcinogenicity: No.¹

Reproductive toxicity: No.¹

STOT-repeated exposure: No.¹

¹ calculated. No animal testing performed.

12 ECOLOGICAL INFORMATION

Toxicity

Acute		Chronic	
Fish:	LC50 for freshwater fish and Daphnia estimated to be > 200 ppm	Fish:	Not tested
Crustacea:		Crustacea:	Not tested
Algae/aquatic plants:		Algae/aquatic plants:	Not tested
Other organisms:	Not tested	Other organisms:	Not tested

Persistence and degradability:

Abiotic Degradation: Surfactant degrades abiotically

Biodegradation: Readily biodegradable per OECD 301D

Physical- and photo-chemical elimination: Not assessed

Bioaccumulative potential

Partition coefficient n-octanol/ water (log Kow): Not assessed

Bioconcentration factor (BCF): Not assessed

Mobility in soil

Known or predicted distribution to environmental compartments: Unknown

Surface Tension: Not tested

Adsorption/Desorption: Not tested

Results of PBT and vPvB assessment: Contains no ingredients known as PBT or vPvB.

Other adverse effects: Unknown

Additional Information: None

13 DISPOSAL CONSIDERATIONS

Unused and Used liquid disposal: May be considered hazardous in your area depending on usage and tonnage of disposal – check product IDS and with local, national and European waste management legislation for appropriate methods of disposal. *Waste should not be disposed of by release to sewers.*

Empty Container disposal Triple rinse plastic bottles and offer all up for recycling.

Never dispose of preparation into lakes, streams, and open bodies of water or storm drains.

Be sure to follow any National or Regional provisions that may be in force.

14 TRANSPORTATION INFORMATION

DOT / TDG: Not classified as hazardous.

IMO / IDMG: Not classified as hazardous.

ICAO-TI/ IATA-DGR: Not classified as hazardous.

ADR / RID / ADN: Not classified as hazardous.

AND tank vessels: Not classified as hazardous.

UN Number: Not applicable

Transport Hazard Class(es): Non-Hazardous

UN Proper Shipping Name: Cleaning Compound, Liquid NOI

NMFC#48580-3

Class 55

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14 TRANSPORTATION INFORMATION - continued

Packing Group: Not applicable
Environmental Hazards: Not applicable
Special Precautions for User: Check section 3, section 7 and IDS for ingredient classification
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

15 REGULATORY INFORMATION

This mixture contains only ingredients which have been subject to a pre-registration according to Regulation (EC) No. 1907/2006 (REACH).

Detergent Regulation 648/2004/EC : Please see separate IDS for full ingredient disclosure

France: Triethanolamine (102-71-6) Occupational Illnesses RG 49
1-butoxy-2-propanol (5131-66-8) Occupational Illnesses RG 84

German Water Classification: Alcohol Ethoxylate (68439-46-3) ID No. 670, Water Hazard Class 2
Triethanolamine (102-71-6) ID No. 201, Water Hazard Class 1
1-butoxy-2-propanol (5131-66-8) ID No. 8304, Water Hazard Class 1
Potassium Silicate (1312-76-1) ID No. 1316, Water Hazard Class 1

R-Phrase

R36 - Irritating to Eyes

Hazard Symbols



S-Phrase

S2: Keep out of the reach of children.

S25: Avoid contact with eyes.

S37: Wear suitable gloves

S51: Use only in well ventilated areas.

Additional Markings: None.

VOC Content

Contains 2,04% VOC according to California Air Resources Board Method 310.

Chemical Safety Assessment: No chemical safety assessment has been carried out for this mixture by the supplier.

16 OTHER INFORMATION

Abbreviations

Xn: Irritant to Skin

Xi: Irritant to Eyes

R 22: Harmful if swallowed

R 36: Irritating to eyes

R 36/38: Irritating to eyes and skin.

R 41: Corrosive to eyes

H302: Harmful if swallowed

H315: Causes skin irritation

H318: Causes serious eye damage

H319: Causes serious eye irritation.

Classification according to Regulation (EC) Nr. 1272/2008

Classification	Procedure
Not yet classified under this regulation	Not applicable

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16 OTHER INFORMATION - continued

Manufacturer Numbers:

<u>Size</u>	<u>Number</u>		
1 L	13451	010030113451	0110301213451
10 L	13459	70528	
20 L	13419	0100300113419	
25 L	70529		
208 L	13456	0100300113456	70530
260 gallon	0100300113466		

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

Date of Issue: 04.09.2014

Replaces Data Sheet of: 05.08.2014

Indication of changes: Additional column to section 3; Additional exposure values and regulatory disclosures

Responsible Party for SDS: Simple Green Research & Development Department, info@simplegreen.com