



SAFETY DATA SHEET

(Previously identified as MSDS: Material Safety Data Sheet)

Issue Date 1-July-2013

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Version 4

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: AEROGREEN 4015 Concentrated Aircraft Cleaner

Other Means of Identification AeroGreen Exterior Interior Concentrated Aircraft Cleaner

SDS # 4015

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Concentrated Exterior Aircraft-Helicopter cleaning

Details of the Supplier of the Safety Data Sheet

Supplier Address

Aerogreen Solutions LLC
P.O. Box 399
1285 Brucetown Road
Clear Brook VA 22624

Emergency Telephone Number

Company Phone Number 1-540-450-8375

Emergency Telephone 1-540-450-8375

Web Address www.aerogreen.us

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation EC No 1272/2008 CLP:

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.

Labeling: Labeling according to Regulation EC No 1272/2008 CLP: Void

Hazard pictograms: Void

Signal word: Void

Hazard Statements: Void

Precautionary statements: P102 Keep out of reach of children

Regulation (EC) No 648/2004 on detergents/ labeling for contents: Non applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Mixtures No hazardous ingredients

Description: Mixture consisting of substances that either not classified or not required to be stated in the Safety data Sheet according to Reg. (EU) 830/2015.

Composition Data Sheets (CDS) are available upon request identifying all ingredients.

*** As outlined in "The Hazard Communication Standard (HCS) (29 CFR 1910.1200(g)), revised in 2012," states that the chemical name and concentration (i.e. exact percentage) of all ingredients which are classified as health hazards and are: Present above their cut-off/concentration limits or Present a health risk below the cut-off/concentration limits are not to be listed .

4. FIRST AID MEASURES

First Aid Measures

Inhalation	If adverse effect occurs, move to fresh air
Eye Contact	Flush with plenty of water. After 5minutes of flushing, remove contact lenses, if present. Continue flushing for at least 10 more minutes. If irritation persists seek medical attention.
Ingestion	Drink plenty of water to dilute.
Skin Contact	If adverse effect occurs, rinse skin with water.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians This is relatively innocuous substance not expected to cause harm. Should treatment ever be required, it would be directed at control of symptoms.

5. FIRE-FIGHTING MEASURES

This formula is stable, non-flammable, and will not burn. No special procedures necessary

Flammability:	Non-flammable
Flash Point:	Non-flammable
Suitable Extinguishing Media:	Use Dry chemical, CO ₂ , water spray or "alcohol" foam.
Extinguishing Media to Avoid	High volume jet water.
Special Exposure Hazards:	In event of fire created carbon oxides, oxides of phosphorus may be formed.
Special Protective Equipment:	Wear positive pressure self-contained breathing apparatus; Wear full protective clothing.

Specific Hazards Arising from the Chemical

None known. Cool containers exposed to flames with water until well after the fire is out.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/ NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	See Section # 8. Personal Protection: Use personal protective equipment as required.
Environmental Precautions	Do not allow into open waterways or ground water systems.
Methods Cleaning Up	Dilute with water and rinse into sanitary sewer system or soak up with inert absorbent material.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines	OSHA PEL	ACGIH TLV
	No reportable ingredients	

Appropriate Engineering

<u>Controls</u> Engineering Controls	Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits. Showers. Eyewash stations.
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Individual Protection Measures, such as Personal Protective Equipment



Skin and Body Protection: Butyl rubber or other impervious gloves should be used for prolonged exposure or for dermal sensitive individuals are required.

Eye/Face Protection: Wear approved safety goggles if splashing or spray back is likely.

Respiratory: Use in well ventilated area. Use suitable respiratory protective device in case of insufficient ventilation

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid
Appearance	Blue Liquid
Color	Blue
Odor	Slight Characteristic Odor
Odor Threshold	Not Determined
Boiling Point	F: 212 C: 100
Evaporation Rate	
Basis (Butyl Acetate-1)	<1
Solubility in Water	100%
Freezing Point	F: <32 C: <0
Percent Solid by Weight	Not Established
pH in Concentrate	11.8-12.4
pH 6:1 Dilution	10.0-10.4
Vapor Pressure (mmHg)	F:77
20@14.2 mmHg	0.62
Vapor Density (Air=1)	1.01
Specific Gravity (H2O=1)	
VOC SCAQMD Method 313.91	30 gm/l
In Concentrate	10 gm/l
Diluted 2:1 with water	0.2536662132 at 30 gm/l
VOC Content by Weight	0.083454044518 at 10 gm/l
Diluted 2:1 with water	0.0005 to 0.05
Conductivity	8.45 lbs/per gallon
Weight Per Gallon	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

None under normal conditions

Incompatible Materials

None Known

Hazardous Decomposition Products

Normal products of combustion-Co, Co2.

Effects of Exposure: Not expected to be hazardous under typical use conditions

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	Oral LD_{50} (rat)	>5 g/kg body weight
	Dermal LD_{50} (rabbit)	>5 g/kg body weight
<small>Calculated via OECD Harmonized Integrated Classification System for Human Health & Environmental Hazards of Chemical Substance & Mixtures</small>		
Eye Contact	Avoid contact with eyes. Minimal irritant per Ocular Irritation @assay modeling.	
	No animal testing performed.	
Skin Contact	May cause dryness and irritation. Non-irritant per dermal irritation@ assay modeling.	

No animal testing performed.

Carcinogens: No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens

12. ECOLOGICAL INFORMATION

Aquatic Toxicity:	Low, based on OECD 201, 202, 203 + Microtox: EC_{50} & $IC_{50} > 100$ Mg/L
Terrestrial Toxicity:	Low, based on toxicology profile
Persistence and degradability:	Readily Biodegradable per 49 CFR 796.3100Aerobic Aquatic Biodegradation
Mobility:	No Data Available.
Bioaccumulation:	Not Applicable

Other Adverse Effects Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Unused Product:	* Dilute with water and dispose by sanitary sewer. *Used product may be hazardous depending on the cleaning application and resulting Contaminants.
Empty Containers:	* Triple-rinse with water and offer for recycling if available in your area.

* *Dispose of used or unused product, and empty containers in accordance with the local, State, Provincial, and Federal.

Regulations for your location. Never dispose of used degreasing water, containing low concentrations of contaminants, resulting from the cleaning of containers etc. into lakes, streams, and open bodies of water or storm drains.

14. TRANSPORT INFORMATION

U.S. (DOT)/ Canadian TDG:	Void
IMO/IDMG:	Void
U.N.Number: ADR, ADN, IMDG, IATA :	Void
UN Proper Shipping Name ADR, ADN, IMDG, IATA:	Void
U.S. Shipping Class	55, Cleaning Compound
Hazard Class(es) ADR, ADN, IMDG, IATA:	Void
Packing group ADR, ADN, IMDG, IATA:	Void
Environmental hazards:	Not Applicable
Special precautions for user:	Not Applicable
Transportation in bulk according to Annex 11 of Marpol and the IBC Code:	Not Applicable
UN "Model Regulation"	Void

15. REGULATORY INFORMATION

All components are listed on: EINECS, TSCA, DSL, AICS and NZIoC Inventory. SARA Title III:

Sections 311/313 –Not applicable.

Sections 313 –Not applicable.

Sections 302 –Not applicable.

State Right to know lists: No ingredients listed

CA Prop 65: None Listed

Safety, health and environmental regulations/legislation specific for the substance or mixture

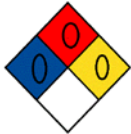
Detergent Regulation No. 648/2004/EC CLP Regulation No. 1272/2008/EC Regulation (EU) 2015/830

Regulation REACH (EC) 1907/2006

Constituents of the mixture that fall within the scope of REACH Regulation 1907/2006/EC, have been (pre)-registered. Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work. Council Directive 94/33/EC on the protection of young people at work, as amended. Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as amended Directive 2012/18/EU Named dangerous substances - ANNEX I None of the ingredients is listed

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by Canada's Controlled Products Regulation.

16. OTHER INFORMATION



NFPA/HMIS Rating:

Health, Fire, Reactivity, and Special = 0 =minimal

Part Number	Size	Warranty1 (one) Year Shelf Life
4015-PI	5-Gallon Pail	Batch Code: Containers of this formula will be
4015-DR	55-Gallon Drum	batch coded as follows: Lot # 111213 where
4015-275T	275 Gallon Tote	"1" Number of Batch Produced
4015 -330T	330 Gallon Tote	"11" Month Batch is Produced
		"21" Day in the Month Batch is produced
		"3" is the last digit of the year product produced

Prepared/Revised by: Aerogreen Solutions LLC, Regulatory Department
This SDS has been revised in the following sections: ALL

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet