# SAFETY DATA SHEET.

Issuing date 14-Jun-2016 Revision Date 08-May-2018 Version 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name KLEEN ALL FOAMING DEGREASER

Recommended use of the chemical

and restrictions on use

<u>Product Type</u> Extremely flammable aerosol

Synonyms None

Supplier's details

Recommended Use Degreaser.

Uses advised against No information available

Manufacturer; Nanoplas, Inc. 2950 Prairie St., SW

Suite 900

Grandville, MI 49418

Emergency telephone number

Chemical Emergency Phone

Number

Chemtrec 1-800-262-8200 ID 1195

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## 2. HAZARDS IDENTIFICATION

#### Classification

Serious eye damage/eye irritation	Category 2B
Flammable aerosols	Category 1
Gases under pressure	Compressed Gas

# GHS Label elements, including precautionary statements

#### **Emergency Overview**

#### **DANGER**

#### **Hazard Statements** Causes

eye irritation Extremely flammable aerosol

Contains gas under pressure; may explode if heated



Appearance Clear Physical state Aerosol Odor Solvent

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Do not spray on an open flame or other ignition source

Pressurized container: Do not pierce or burn, even after use

# **Precautionary Statements - Response**

IF IN EYES: 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

#### **Precautionary Statements - Storage**

Protect from sunlight. Store in a well-ventilated place Do not expose to temperatures exceeding 122°F (50°C)

#### Hazards not otherwise classified (HNOC)

None

#### Other information

0.5438% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %*	
PROPANE/ISOBUTANE/N-BUTANE	68476-86-8	1-10	

Revision Date 8-May-2018

#### **KLEEN ALL**

1-BUTOXY-2-PROPANOL	5131-66-8	1-10
SODIUM LAURYL SULFATE	151-21-3	1-10

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

#### First aid measures for different exposure routes

**General advice** Avoid contact with eyes, skin, and clothing. Avoid breathing vapors mist, or gas.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

symptoms persist, call a physician.

**Skin contact** Wash off immediately with plenty of water. Remove and wash contaminated clothing before

re-use. Get medical attention immediately if symptoms occur.

**Inhalation** Move to fresh air. If not breathing, give artificial respiration. If breathing has stopped,

contact emergency medical services immediately.

**Ingestion** Do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an

unconscious person. Risk of product entering the lungs on vomiting after ingestion.

#### Most important symptoms/effects, acute and delayed

Main Symptoms Causes eye irritation. May cause skin and respiratory irritation. May be harmful if swallowed

and enters airways.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

# Suitable Extinguishing Media

Water fog.Dry chemical. Carbon dioxide (CO2). Cool containers/tanks with water spray.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

#### Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition.

#### **Explosion Data**

Sensitivity to Mechanical Impact none.
Sensitivity to Static Discharge Yes.

#### **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. Use shielding to protect fire-fighters from bursting containers.

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

#### **Environmental precautions**

Environmental precautions Vapors can accumulate in low areas. Report spills as required by local and federal

regulations.

Methods and materials for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Contain liquid and collect with an inter,non-combustible material.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Avoid contact with eyes. Avoid breathing vapors or mists. Avoid skin contact. Use with

adequate ventilation. Causes severe skin burns and eye damage. Keep container away from heat, flames, and all other sources of ignition. Keep can away from all sources of electricty

such as electric motors and batteries. Do not spray on hot surfaces.

## Conditions for safe storage, including any incompatibilities

**Technical measures/Storage** 

conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible products**Store away from strong acids, alkalis, or oxidizing agents.

Aerosol Level 1

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

Chemical Name	Chemical Name ACGIH TLV		NIOSH IDLH		
PROPANE/ISOBUTANE/N-BUTANE 74-98-6: TWA: 1000 ppm		74-98-6:TWA: 1000 ppm	74-98-6:IDLH: 2100 ppm		
68476-86-8	68476-86-8 106-97-8: STEL: 1000 ppm		TWA: 1000 ppm		
	75-28-5: STEL: 1000 ppm	(vacated) TWA: 1000 ppm	TWA: 1800 mg/m <sup>3</sup>		
		(vacated) TWA: 1800 mg/m <sup>3</sup>	106-97-8:TWA: 800 ppm		
		106-97-8: (vacated) TWA: 800	TWA: 1900 mg/m <sup>3</sup>		
		ppm	75-28-5:TWA: 800 ppm		
		(vacated) TWA: 1900 mg/m <sup>3</sup>	TWA: 1900 mg/m <sup>3</sup>		

ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration) NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Exposure controls

Engineering Measures Ventilation systems. Use adequate ventilation to keep the exposure levels below the OELs.

## Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Safety glasses with side-shields.

**Skin and body protection** Chemical resistant apron. Protective gloves.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Physical and chemical properties

Physical state Aerosol

Appearance Clear Odor Solvent

Color colorless Odor Threshold

Property Values Remarks • Methods

pHNo information availableMelting/freezing pointNo information availableBoiling point/boiling rangeNo information available

Flash Point -91 °C / -132 °F Based on propellant

**Evaporation rate**Flammability (solid, gas)
No information available
No information available

Flammability Limits in Air

upper flammability limitNo information availablelower flammability limitNo information availableVapor pressureNo information availableVapor densityNo information available

Specific Gravity 0.964

Water solubility Soluble in water

Partition coefficient: n-octanol/water

Autoignition temperature No information available

**Decomposition temperature** 

Viscosity No information available

**Explosive properties** 

Other information

VOC Content(%) 11.89

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

## **Chemical stability**

Stable under recommended storage conditions.

## Possibility of hazardous reactions

None under normal processing.

## **Conditions to Avoid**

Extremes of temperature and direct sunlight.

## Incompatible Materials

Store away from strong acids, alkalis, or oxidizing agents.

# **Hazardous Decomposition Products**

Carbon oxides.

#### 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known information

**Inhalation** Exposure to high vapour concentrations may cause nervous systems effects such as

headache, nausea, and dizziness.

#### **KLEEN ALL**

**Eye contact** Irritating to eyes.

**Skin contact** May be irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis.

**Ingestion** Aspiration into the lungs during swallowing may cause serious lung damage which may be

fatal.

**Component Information** 

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation	
1-BUTOXY-2-PROPANOL	= 1900 mg/kg (Rat)	-	-	
5131-66-8				
SODIUM LAURYL SULFATE	= 1288 mg/kg (Rat)	= 580 mg/kg ( Rabbit )	> 3900 mg/m <sup>3</sup> (Rat) 1 h	
151-21-3				

#### Information on toxicological effects

Symptoms Causes eye irritation. May cause skin and respiratory irritation. May be fatal if swallowed

and enters airways.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** May cause skin irritation.

**Eye damage/irritation** Irritating to eyes. **Sensitization** None known.

Germ Cell Mutagenicity Not a germ cell mutagen.

**Carcinogenicity** There are no known carcinogenic chemicals in this product.

ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

OSHA: (Occupational Safety & Health Administration)

X - Present

Reproductive toxicity

This product does not contain any known or suspected reproductive hazards. None known.

Specific target organ systemic toxicity (single exposure)

Specific target organ systemic

toxicity (repeated exposure)

None known.

Chronic toxicity May cause adverse liver effects. Intentional misuse by deliberately concentrating and

inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest. Prolonged skin contact may defat

the skin and produce dermatitis.

Target Organ Effects Central Nervous System (CNS), Eyes, Kidney, Liver, Respiratory system, Skin, Lymphatic

System, Gastrointestinal tract (GI).

**Aspiration hazard** Not applicable.

# Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 0.5438% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 920 mg/kg
ATEmix (dermal) 2501 mg/kg
ATEmix (inhalation-dust/mist) 35.4 mg/l
ATEmix (inhalation-vapor) 106 mg/l

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to	Toxicity to daphnia and
			microorganisms	other aquatic invertebrates
SODIUM LAURYL	53 mg/L EC50	8 - 12.5 mg/L LC50	-	1.8 mg/L EC50 Daphnia
SULFATE	Desmodesmus subspicatus	Pimephales promelas 96h		magna 48h
151-21-3	72h 30 - 100 mg/L EC50	static 15 - 18.9 mg/L LC50		
	Desmodesmus subspicatus	Pimephales promelas 96h		
	96h 117 mg/L EC50	static 22.1 - 22.8 mg/L LC50		
	Pseudokirchneriella	Pimephales promelas 96h		
	subcapitata 96h 3.59 - 15.6	static 4.3 - 8.5 mg/L LC50		
	mg/L EC50	Oncorhynchus mykiss 96h		
	Pseudokirchneriella	static 4.62 mg/L LC50		
	subcapitata 96h static	Oncorhynchus mykiss 96h		
		flow-through 4.2 mg/L LC50		
		Oncorhynchus mykiss 96h		
		6.2 - 9.6 mg/L LC50		
		Pimephales promelas 96h		
		13.5 - 18.3 mg/L LC50		
		Poecilia reticulata 96h semi-		
		static 10.8 - 16.6 mg/L LC50		
		Poecilia reticulata 96h static		
		1.31 mg/L LC50		
		Cyprinus carpio 96h semi-		
		static 9.9 - 20.1 mg/L LC50		
		Brachydanio rerio 96h semi-		
		static 4.06 - 5.75 mg/L LC50		
		Lepomis macrochirus		
		96h static 4.2 - 4.8 mg/L		
		LC50 Lepomis macrochirus		
		96h flow-through 4.5 mg/L		
		LC50 Lepomis macrochirus		
		96h 5.8 - 7.5 mg/L LC50		
		Pimephales promelas 96h		
		static 10.2 - 22.5 mg/L LC50		
		Pimephales promelas 96h		
		semi-static 7.97 mg/L LC50		
		Brachydanio rerio 96h		
		flow-through		

# Persistence and degradability

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# **Bioaccumulation**

Chemical Name	log Pow
PROPANE/ISOBUTANE/N-BUTANE 68476-86-8	<=2.8
SODIUM LAURYL SULFATE 151-21-3	1.6

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

# **Waste treatment**

Waste Disposal Methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261). Dispose of in accordance with federal, state, and local regulations.

**Contaminated packaging** Do not re-use empty containers.

# 14. TRANSPORT INFORMATION

**DOT Ground** CONSUMER COMMODITY ORM-D

or

LIMITED QUANTITY

IATA UN1950, AEROSOLS, FLAMMABLE, 2.1,LTD.QTY.

IMDG UN1950, AEROSOLS, 2.1,LTD.QTY.

## 15. REGULATORY INFORMATION

## **International Inventories**

Chemical Name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
PROPANE/ISOBUTA NE/N-BUTANE	Х	Х	Х	Not listed	Х	Х	Х	Х
1-BUTOXY-2-PROPA NOL	Х	Х	Х	Х	Х	Х	Х	Х
SODIUM LAURYL SULFATE	Х	Х	Х	Х	Х	Х	Х	Х

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**CHINA** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

## SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard Yes
Sudden Release of Pressure Hazard Yes
Reactive Hazard no

## **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

## **U.S. State Regulations**

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## **California Proposition 65**

This product does not contain any known Proposition 65 chemicals.

#### **U.S. State Right-to-Know Regulations**

EPA Pesticide Registration Number Not applicable

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

## **16. OTHER INFORMATION**

NFPA Health Hazard 2 Flammability 4 Instability 0 Physical and chemical

hazards -

Health Hazard 2 Flammability 4 Physical Hazard 1 Personal protection B

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**Revision Note** 

#### **Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of Safety Data Sheet**