

# SAFETY DATA SHEET

Issue Date: 24-Feb-2016 Version 1

# 1. IDENTIFICATION

**Product Identifier** 

Product Name Kleensafe

Other means of identification

SDS # KLEENSAFE

**Other Information** Package type: 1, 5, 55 gal.

Recommended use of the chemical and restrictions on use

**Recommended Use** Cleaning aluminum finned cooling and heating coils.

**Restrictions on Use** For professional use only. Product is a concentrate and should be diluted prior to use.

#### Details of the supplier of the safety data sheet

Distributed by:

National Refrigeration Products 985 Wheeler Way Langhorne, PA 19047 USA

Emergency telephone number

Company Phone Number 1-800-352-6951

Emergency Telephone Chemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

# Classification

Serious eve damage/eve irritation	Category 2

Signal Word Warning

**Hazard Statements** 

Causes severe eye irritation



Appearance Clear liquid Physical State Liquid Odor Characteristic

# **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear eye/face protection

# 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

#### **Hazards not otherwise classified (HNOC)**

Not Applicable

#### **Other Information**

Not Applicable

#### 3. COMPOSTION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
dipropylene glycol monomethyl ether (DPM)	34590-94-8	<15
Proprietary Surfactant Blend	Proprietary	<10
Sodium carbonate	497-19-8	<5
Citric Acid	77-92-9	<5

## 4. FIRST AID MEASURES

# First aid measures

**Inhalation** Remove to fresh air. If breathing has stopped, give artificial respiration. Get

medical attention immediately.

Eye contact Immediately flush with plenty of water for up to 15 minutes. Get medical attention.

**Ingestion** Drink plenty of water. Do NOT induce vomiting. If vomiting occurs naturally, have

victim lean forward to reduce risk of aspiration. Seek medical attention immediately.

**Skin Contact** Get medical attention if irritation develops or persists.

# Most important symptoms and effects, both acute and delayed

Symptoms May cause severe eye irritation. May cause gastrointestinal irritation, nausea, diarrhea,

and vomiting. Vapor causes irritation to nasal and respiratory passages.

#### Indication of any immediate medical attention and special treatment needed

#### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Dry chemical, CO2 or water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

#### Specific hazards arising from the chemical

Not determined.

Hazardous combustion products Carbon oxides.

Protective equipment and precautions for firefighters

# 6. ACCIDENTAL RELEASE MEASURES

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

**Personal precautions**Use personal protective equipment as required. Avoid breathing vapors, mist or gas.

Ensure adequate ventilation.

#### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods for cleaning up Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and place in container for disposal according to local /

national regulations (see Section 13).

# 7. HANDLING AND STORAGE

# Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid breathing

vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after

handling. Use personal protection recommended in Section 8.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up. Keep container tightly closed.

Incompatible materials None known based on information supplied

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# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
dipropylene glycol monomethyl	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 600	IDLH: 600 ppm TWA: 100 ppm
ether	S*	mg/m3 (vacated) TWA: 100	TWA: 600 mg/m <sup>3</sup>
(DPM)		ppm	STEL: 150 ppm
34590-94-8		(vacated) TWA: 600 mg/m <sup>3</sup>	STEL: 900 mg/m <sup>3</sup>
		(vacated) STEL: 150 ppm	_
		(vacated) STEL: 900 mg/m <sup>3</sup>	
		(vacated) S*	
		` S* ´	
Citric Acid	-	15 mg/m³ (Total)	-
77-92-9		_ , ,	

#### **Appropriate engineering controls**

Engineering Controls

Ventilation must be adequate to maintain the ambient workplace atmosphere below the

exposure limit(s) outlined in the SDS.

#### Individual protection measures, such as personal protective equipment

**Eye/face Protection**Use tight fitting, splash proof safety goggles. Contact lenses should not be worn when

handling this material. Face Mask.

**Skin and Body Protection** Wear suitable protective clothing and footwear appropriate for the risk of exposure.

Wear protective Neoprene™ gloves.

**Respiratory Protection** Ensure adequate ventilation, especially in confined areas.

**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 stateLiquidOdorCharacteristicAppearanceClear liquidOdor thresholdNot determinedColorWater ClearOdor thresholdNot determined

Property Values Remarks • Method

8.0-10.0 Melting point/freezing point Not determined Flash point Not determined **Evaporation rate** Not determined Flammability (solid, gas) Not determined Flammability Limits in Air Not determined **Upper flammability limits** Not determined Lower flammability limits Not determined Vapor pressure Not determined Vapor density Not determined Specific gravity 1.01-1.03 Water solubility Not determined Solubility in other solvents Not determined Partition in other solvents Not determined Partition coefficient Not determined **Autoignition temperature** Not determined

Kinematic viscosity

Dynamic viscosity

Explosive properties

Oxidizing properties

Not determined
Not determined
Not determined
Not determined

#### **Other Information**

# 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**

Keep out of reach of children.

# **Incompatible materials**

None known based on information supplied.

#### **Hazardous Decomposition Products**

None known based on information supplied.

#### 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

#### **Product Information**

**Inhalation** May cause irritation to the mucous membranes and upper respiratory tract.

**Eye contact** Causes severe eye irritation.

**Skin Contact** May cause temporary irritation on skin contact.

**Ingestion** May cause gastrointestinal irritation, nausea, diarrhea, and vomiting.

#### **Component Information**

Chemical Name	Oral	Dermal LD50	Inhalation LC50	
Water 7732-18-5	> 90 mL/kg ( Rat )	-	-	
dipropylene glycol monomethyl ether (DPM) 34590-94-8	= 5230 mg/kg(Rat)	= 9500 mg/kg(Rabbit)	-	
Sodium carbonate 497-19-8	4090 mg/kg (Rat)	-	-	
Citric Acid 77-92-9	= 3000 mg/kg ( Rat )	-	-	

Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

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

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by

OSHA, IARC or NTP.

Numerical measures of toxicity - Product

Not determined

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

ATEmix (oral) 12920 mg/kg ATEmix (dermal) 26042 mg/kg

# 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

All raw materials selected from DfE (Safer Choice) approved list.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
dipropylene glycol monomethyl ether (DPM) 34590-94-8		10000: 96 h Pimephales promelas mg/L LC50 static		1919: 48 h Daphnia magna mg/L LC50
Sodium carbonate 497-19-8	242: 120 h Nitzschia mg/L EC50	300: 96 h Lepomis macrochirus mg/L LC50 static 310 - 1220: 96 h Pimephales promelas mg/L LC50 static		265: 48 h Daphnia magna mg/L EC50
Citric Acid 77-92-9		1516: 96 h Lepomis macrochirus mg/L LC50 static		120: 72 h Daphnia magna mg/L EC50

#### Persistence and degradability

Not determined

#### **Bioaccumulation**

Not determined

# **Mobility**

Not determined

Chemical Name	Partition coefficient
dipropylene glycol monomethyl ether (DPM)	-0.064
34590-94-8	
Citric Acid	-1.72
77-92-9	

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.

Chemical Name	California Hazardous Waste Status
Sodium carbonate	Corrosive
497-19-8	

# 14. TRANSPORT INFORMATION

<u>IATA</u>IMDGNot regulatedNot regulated

# 15. REGULATORY INFORMATION

# **International Inventories**

Not determined

# 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 Chemical Substances/European List of Notified Chemical Substances

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

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### **U.S. Federal Regulations**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
dipropylene glycol monomethyl ether (DPM)	34590-94-8	<15	1.0

## SARA 311/312 Hazard Categories

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

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
dipropylene glycol monomethyl ether (DPM) 34590-94-8	X	Х	X

#### **U.S. EPA Label Information**

#### **16. OTHER INFORMATION**

NFPAHealth hazards<br/>Not determinedFlammability<br/>Not determinedInstability<br/>Not determinedSpecial Hazards<br/>Not determinedHMISHealth hazardsFlammabilityPhysical hazardsPersonal protection100

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# **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 a 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**