

Safety Data Sheet

Issue Date: 28-Sep-2010 Revision Date: 06-Mar-2014 Version 1

1. IDENTIFICATION

Product Identifier

Product Name Freez-Kontr'l® 95/5

Other means of identification

Product Number 4188-03, 4188-06

Recommended use of the chemical and restrictions on use

Recommended Use Closed system anti-freeze agent.

Details of the supplier of the safety data sheet

Supplier Address

Nu-Calgon 2008 Altom Court St. Louis, MO 63146 www.nucalgon.com

Emergency Telephone Number

Company Phone Number 314-469-7000

800-554-5499

Emergency Telephone (24 hr) Chemtrec 1-800-424-9300 (North America) 1-703-527-3887 (International)

2. HAZARDS IDENTIFICATION

AppearanceLight blue liquidPhysical StateLiquidOdorNearly odorless

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

Unknown Acute Toxicity

1.47% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Propylene Glycol	57-55-6	80-100

^{**}If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. FIRST-AID MEASURES

First Aid Measures

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

eye irritation persists: Get medical advice/attention.

Skin Contact In case of contact, immediately wash skin with soap and water or water for at least 15

minutes. Take off contaminated clothing. If skin irritation persists, call a physician.

Inhalation Remove to fresh air. Not expected to be a problem.

Ingestion Dilute by giving a large amount of water. If ingestion of a large amount does occur, call a

poison control center immediately.

Most important symptoms and effects

Symptoms May cause skin and eye irritation. Ingestion may cause nervous system depression.

Indication of any immediate medical attention and special treatment needed

Notes to Physician In case of ingestion, monitor for acidosis and central nervous system changes. Exposed

persons with previous kidney dysfunction may require special treatment.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray (fog). Carbon dioxide (CO2). Foam. Dry chemical. Any "ABC" class.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Containers may explode when heated.

Hazardous Combustion Products Carbon oxides. Aldehydes.

Sensitivity to Mechanical Impact Not sensitive.
Sensitivity to Static Discharge Not sensitive.

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. Keep unnecessary people away; isolate hazard area and deny entry. Use water spray to keep fire-exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

hazard area. Keep unnecessary and unprotected personnel from entering.

Environmental Precautions Do not release into sewers or waterways.

Methods and material for containment and cleaning up

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

Methods for Clean-Up Contain and collect with an inert absorbent and place into an appropriate container for

disposal. Wash area with soap and water.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Do not eat, drink, smoke, or apply cosmetics while handling this product. Wash thoroughly

after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store only in

approved containers. Store away from incompatible materials. Protect from light. Store

between 15°C to 30°C.

Incompatible Materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines No exposure limits noted for ingredient(s)

Appropriate engineering controls

Engineering Controls Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tight sealing safety goggles.

Skin and Body Protection Wear suitable gloves.

Respiratory Protection Not normally required for routine use of this product. A NOISH certified air-purifying

respirator may be used under conditions where airborne concentrations are expected to be excessive. Protection provided by air-purifying respirators is limited. Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide

adequate protection. A respiratory program that meets OSHA 29CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's

use.

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

AppearanceLight blue liquidOdorNearly odorlessColorLight blueOdor ThresholdNot determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Not determined Hq **Melting Point/Freezing Point** -60 °C / -76 °F **Boiling Point/Boiling Range** 182 °C / 360 °F Flash Point 99 °C / 211 °F **Evaporation Rate** Not available Flammability (Solid, Gas) n/a-liquid **Upper Flammability Limits** Not determined **Lower Flammability Limit** Not determined Vapor Pressure 0.1 mm Hg

Vapor Density 2.6 (Air=1)

Specific Gravity 1.04

Water Solubility Completely soluble Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** 371 °C / 700 °F **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

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.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Heat, flames, ignition sources and incompatibles.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Carbon oxides. Aldehydes.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Avoid contact with eyes.

Skin Contact Avoid contact with skin.

Inhalation Avoid breathing vapors or mists.

Ingestion Do not taste or swallow.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Propylene Glycol	= 20000 mg/kg (Rat)	= 20800 mg/kg (Rabbit)	-
57-55-6			

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

Not determined

Unknown Acute Toxicity 1.47% of the mixture consists of ingredient(s) of unknown toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Propylene Glycol	19000: 96 h	51600: 96 h Oncorhynchus		10000: 24 h Daphnia magna
57-55-6	Pseudokirchneriella	mykiss mg/L LC50 static 41 -		mg/L EC50 1000: 48 h
	subcapitata mg/L EC50	47: 96 h Oncorhynchus		Daphnia magna mg/L EC50
	_	mykiss mL/L LC50 static		Static
		51400: 96 h Pimephales		
		promelas mg/L LC50 static		
		710: 96 h Pimephales		
		promelas mg/L LC50		

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

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.

Not regulated

14. TRANSPORT INFORMATION

DOTNot regulatedIATANot regulated

15. REGULATORY INFORMATION

International Inventories

Not determined

US Federal Regulations

SARA 313

IMDG

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Propylene Glycol	X		X
57-55-6			

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	0	1	1	Not determined
HMIS_	Health Hazards	Flammability	Physical Hazards	Personal Protection
	0	1	1	Not determined

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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