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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 chemic	al and restrictions on use	
Recommended Use	Closed system anti-freeze agent.	
Details of the supplier of the safe	tv data sheet	
Supplier Address		
Nu-Calgon		
2611 Schuetz Road		
St. Louis, MO 63043		
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) 1-703-5	527-3887 (International)
	2. HAZARDS IDENTIFICATION	
Appearance Light blue liquid	Physical State Liquid	Odor Nearly odorless
<u>Classification</u>		
	zardous criteria set forth by the 2012 OSHA Hazard Co ata Sheet (SDS) contains valuable information critical t	

Unknown Acute Toxicity

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

this product. This SDS should be retained and available for employees and other users of this product.

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.

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 effe	ects
Symptoms	May cause skin and eye irritation. Ingestion may cause nervous system depression.
Indication of any immediate medic	al 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.

4. FIRST-AID MEASURES

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		
Personal Precautions	Use personal protective equipment as required. Remove all sources of ignition. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.		
Environmental Precautions	Do not release into sewers or waterways.		
Methods and material for contain	ment 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, inclu	ding 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. E	XPOSURE CONTROLS/PERSONAL PROTECTION		
Exposure Guidelines	No exposure limits noted for ingredient(s)		
Appropriate engineering controls			
Engineering Controls	Ventilation systems.		
Individual protection measures, s	uch 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 Consideratio	ns Handle in accordance with good industrial hygiene and safety practice.		

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Appearance Color	Liquid Light blue liquid Light blue	Odor Odor Threshold	Nearly odorless Not determined
Property pH Melting Point/Freezing Point Boiling Point/Boiling Range Flash Point Evaporation Rate Flammability (Solid, Gas) Upper Flammability Limits Lower Flammability Limit Vapor Pressure Vapor Density Specific Gravity Water Solubility Solubility in other solvents Partition Coefficient Auto-ignition Temperature Decomposition Temperature Kinematic Viscosity Dynamic Viscosity Explosive Properties Oxidizing Properties	ValuesNot determined $-60 \circ C / -76 \circ F$ $182 \circ C / 360 \circ F$ $99 \circ C / 211 \circ F$ Not availablen/a-liquidNot determinedNot determined0.1 mm Hg2.61.04Completely solubleNot determinedNot determined371 °C / 700 °FNot determinedNot determined	<u>Remarks • Method</u> (Air=1)	

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

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

<u>Mobility</u>

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.
	14. TRANSPORT INFORMATION
<u>DOT</u>	Not regulated
IATA	Not regulated
IMDG_	Not regulated
	15. REGULATORY INFORMATION

International Inventories

Not determined

US Federal Regulations

SARA 313

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 Nar	ne Nev	v Jersey	Massachusetts	Pennsylvania
Propylene Gly	col	X		X
57-55-6				
		16. OTHER INFOR	RMATION	
IFPA_	Health Hazards	Flammability	Instability	Special Hazards
	0	1	1	Not determined
IMIS	Health Hazards	Flammability	Physical Hazards	Personal Protection
	0	1	1	Not determined
ssue Date:	28-Sep	-2010		
levision Date:	06-Mar			
evision Note:	New for	mat		

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