SAFETY DATA SHEET

Issue Date: 08-May-2008 **Revision Date:** 26-Feb-2015 **Version** 1

1. IDENTIFICATION

Product Identifier
Product Name **NC EVAP-PLUS**

Other means of identification
SDS # **EP1Q**

Other Information Package type: 32oz

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.

Details of the supplier of the safety data sheet
Distributor Address
National Refrigeration Products
985 Wheeler Way
Langhorne, PA 19047 USA

Emergency telephone number
Company Phone Number **800-352-6951**
Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification
This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122). 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

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Clear green **Physical State** Liquid **Odor** None

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	<5
Alcohols, C9-11 ethoxylated	68439-46-3	<5

4. FIRST AID MEASURES

First aid measures

General advice Provide this SDS to medical personnel for treatment.

Inhalation Remove to fresh air. Call a physician if you feel unwell.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Ingestion Clean mouth with water and drink afterwards plenty of water. If ingestion of a large amount does occur, call a poison control center immediately.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

Most important symptoms and effects, both acute and delayed

Symptoms Ingestion may cause nausea, vomiting, dizziness, and headache. Direct contact with eyes may cause temporary irritation. Direct contact may cause temporary redness and discomfort. May cause dermatitis or irritation in some individuals upon prolonged contact.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical, CO2 or water spray.

Unsuitable Extinguishing Media Not determined

Specific hazards arising from the chemical

Not determined

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 Use personal protective equipment as required

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry sand or earth).

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

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

Incompatible materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
dipropylene glycol monomethyl ether (DPM) 34590-94-8	STEL: 150 ppm TWA: 100 ppm S*	TWA: 100 ppm TWA: 600 mg/m3 (vacated) TWA: 100 ppm (vacated) TWA: 600 mg/m3 (vacated) STEL: 150 ppm (vacated) STEL: 900 mg/m3 (vacated) S* S*	IDLH: 600 ppm TWA: 100 ppm TWA: 600 mg/m3 STEL: 150 ppm STEL: 900 mg/m3

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 Wear safety glasses with side shields (or goggles).

Skin and Body Protection Wear suitable protective clothing.

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 state	Liquid		
Appearance	Clear green	**Odor**	None
Color	Green	**Odor threshold**	Not determined

Property	**Values**	**Remarks • Method**
pH	7.0-8.0	
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	1.00-1.01	
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	Not determined	
Dynamic viscosity	Not determined	
Explosive properties	Not determined	
Oxidizing properties	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 of respiratory tract.

Eye Contact May cause temporary irritation on eye contact.

Skin Contact May cause temporary irritation on skin contact.

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

Component Information

Chemical Name	Oral LD50	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)	-
Alcohols, C9-11 ethoxylated 68439-46-3	= 1378 mg/kg (Rat)	> 2 g/kg (Rabbit)	-

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) 23529 mg/kg

ATEmix (dermal) 36765 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life. Harmful to aquatic life with long lasting effects

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

Persistence and degradability

Not determined

Bioaccumulation

Not determined

Mobility

Not determined

Chemical Name	Partition coefficient
dipropylene glycol monomethyl ether (DPM) 34590-94-8	-0.064

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

DOT Not regulated

IATA Not regulated

IMDG Not 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	<19	1.0

SARA 311/312 Hazard Categories

U.S. State Regulations

California Prop 65
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania

dipropylene glycol monomethyl ether (DPM) 34590-94-8	X	X	X

U.S. EPA Label Information

16. OTHER INFORMATION

NFPA	**Health hazards**	**Flammability**	**Instability**	**Special Hazards**
	Not determined	Not determined	Not determined	Not determined
HMIS	**Health hazards**	**Flammability**	**Physical hazards**	**Personal protection**
	1	0	0	X

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Revision Note: Corrections

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