

1: Identification of the Substance/Preparation and the Company/Undertaking

1.1 GHS Product Identifier

Product Name: ARCTIC

1.2 Other Means of Identification

Product Code(s): 147ARCTIC1G

UN-Number: UN1760

Synonyms: 147ARCTIC1G

1.3 Recommended Use of the Chemical and Restrictions on Use

Recommended Use: Institutional detergent

Uses Advised Against: No information available

1.4 Supplier's Details

Noble Chemical Inc.
2205 Old Philadelphia Pike
Lancaster, PA 17602
Tel: 1-888-256-6400

1.5 Emergency Telephone Number

Emergency Telephone Number: CHEM-TEL, INC.
24 Hour Emergency Contact 1-800-255-3924

2: Hazards Identification

2.1 Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Skin Corrosion/Irritation	Category 1 Subcategory 1B
Serious Eye Damage/Eye Irritation	Category 1

2.2 GHS Label Elements, Including Precautionary Statements

Signal Word: Danger

Hazard Statement(s):

- Causes severe skin burns and eye damage

Appearance: Red, thin liquid

Physical State: Liquid

Odor: No information available

Precautionary Statement(s):

Prevention

- Do not breathe dust/fume/gas/mist/vapors/spray
- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection

General Advice:

- Immediately call a POISON CENTER or doctor/physician

Eyes:

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a POISON CENTER or doctor/physician

Skin:

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before re-use

Inhalation:

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Ingestion:

- IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Storage

- Store locked up

Disposal

- Dispose of contents/container to an approved waste disposal plant



2.3 Hazard Not Otherwise Classified (HNOC)

Not applicable

Other Information:

No information available

3: Composition/Information on Ingredients

Synonyms: 147ARCTIC

Chemical Name	CAS-No	Weight %	Trade Secret
Phosphoric acid	7664-38-2	>50%	*

*The exact percentage (concentration) of composition has been withheld as a trade secret

4: First Aid Measures

4.1 Description of Necessary First Aid Measures

- Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
- Skin Contact:** Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. Immediate medical attention is required.
- Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
- Ingestion:** Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Immediate medical attention is required.

4.2 Most Important Symptoms/Effects, Acute and Delayed

Most Important Symptoms/Effects: No information available

4.3 Indication of Immediate Medical Attention and Special Treatment Needed, if

Necessary

Notes to Physician: Treat symptomatically

5: Fire-Fighting Measures

5.1 Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media: None

5.2 Specific Hazards Arising from the Chemical

No information available

5.3 Explosion Data

Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: None

5.4 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

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Stop leak if you can do it without risk. If spilled, take caution, as material can cause surfaces to become very slippery.

6.2 Environmental Precautions

Environmental Precautions: Dispose of contents/container to an approved waste disposal plant.

6.3 Methods and Materials for Containment and Cleaning Up

Methods for Containment: Stop leak if you can do it without risk

Methods for Cleaning Up: Contain spill, dilute with water and neutralize as required. Wash away small spills with plenty of water.

7: Handling and Storage

7.1 Precautions for Safe Handling

Handling:

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Do not take internally. Wash thoroughly after handling.

7.2 Conditions for Safe Storage Including Any Incompatibilities

Storage:

Keep containers tightly closed in a dry, cool and well ventilated place. Store at room temperature. Keep from freezing. Keep container closed when not in use. Keep out of the reach of children.

Incompatible Products:

Acids. Chlorine-based bleaching agents. Oxidizing agents. Metals. Alkalis.

8: Exposure Controls/Personal Protection

8.1 Control Parameters

Exposure Guidelines:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phosphoric acid 7664-38-2	STEL: 3 mg/m ³ TWA: 1 mg/m ³	TWA: 1 mg/m ³ (vacated) TWA: 1 mg/m ³ (vacated) STEL: 3 mg/m ³	IDLH: 1000 mg/m ³ TWA: 1 mg/m ³ STEL: 3 mg/m ³

8.2 Appropriate Engineering Controls

Engineering Measures: Showers
Eyewash stations
Ventilation systems

8.3 Individual Protection Measures, such as Personal Protective Equipment

- Eye/Face Protection:** Tightly fitting safety goggles.
- Skin and Body Protection:** Rubber gloves. Latex gloves.
- Respiratory Protection:** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
- Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice.

9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

- Physical State:** Liquid
- Appearance:** Red, thin liquid
- Odor:** No information available
- Odor Threshold:** No information available

SAFETY DATA SHEET



Property	Values	Remarks/Method
pH	1.2	None Known
Melting Point/Range	No Data Available	None Known
Boiling Point/Boiling Range	>100°C / >212°F	None Known
Flash Point	No Data Available	None Known
Evaporation Rate	No Data Available	None Known
Flammability (solid, gas)	No Data Available	None Known
Flammability Limits in Air	Upper: No Data Available Lower: No Data Available	None Known
Vapor Pressure	No Data Available	None Known
Vapor Density	No Data Available	None Known
Relative Density	No Data Available	None Known
Specific Gravity	1.27	None Known
Water Solubility	100%	None Known
Solubility in Other Solvents	No Data Available	None Known
Partition Coefficient: n-octanol/water	No Data Available	None Known
Autoignition Temperature	No Data Available	None Known
Decomposition Temperature	No Data Available	None Known
Viscosity	5 cps	
Flammable Properties	Not Flammable	
Explosive Properties	No Data Available	
Oxidizing Properties	No Data Available	

9.2 Other Information

VOC Content (%): No data available

10: Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical Stability

Stable under recommended storage conditions

10.3 Possibility of Hazardous Reactions

None under normal processing

10.4 Conditions to Avoid

Spills or careless handling. Incompatible products

10.5 Incompatible Materials

Acids. Chlorine based bleaching agents. Oxidizing agents. Metals. Alkalis.

10.6 Hazardous Decomposition Products

None, but may liberate Hydrogen Gas in the presence of metals.

11: Toxicological Information

11.1 Information on Likely Routes of Exposure

Product Information:

Inhalation: May cause irritation of respiratory tract

Eye Contact: Causes serious eye damage

Skin Contact: Causes severe skin burns

Ingestion: May be harmful if swallowed

11.2 Symptoms Related to the Physical, Chemical and Toxicological Characteristics

Symptoms: No information available

11.3 Delayed, Immediate, and Chronic Effects from Short & Long Term Exposure

Sensitization:	No information available
Mutagenic Effects:	No information available
Carcinogenicity:	Contains no ingredient listed as a carcinogen
Reproductive Toxicity:	No information available
STOT - single exposure:	No information available
STOT - repeated exposure:	No information available
Aspiration Hazard:	No information available

11.4 Numerical Measures of Toxicity - Product

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

LD50 Oral:	2700 mg/kg; Acute toxicity estimate
LD50 Dermal:	4817 mg/kg; Acute toxicity estimate

12: Ecological Information

12.1 Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Phosphoric acid		LC50: 3 - 3.5 mg/L Gambusia affinis 96 h		EC50 12 h: = 4.6 mg/L (Daphnia magna)

Persistence and Degradability: No information available

Bioaccumulation: No information available

12.1 Other Adverse Effects

No information available

13: Disposal Considerations

Waste Disposal Methods: Dispose of in accordance with federal, state, and local regulations

Contaminated Packaging: Do not re-use empty containers

Chemical Name	California Hazardous Waste
Phosphoric acid	Corrosive

14: Transport Information

14.1 DOT

UN-Number: UN1760
Proper Shipping Name: Corrosive liquid, n.o.s.
Hazard Class: 8
Packing Group: II
Reportable Quantity (RQ): Phosphoric acid: RQ kg= 4864.46
Description: UN1760, Corrosive liquid, n.o.s. (Phosphoric acid), 8, II, RQ
Emergency Response Guide Number: 154

14.2 TDG

UN-Number: UN1760
Proper Shipping Name: Corrosive liquid, n.o.s.
Hazard Class: 8
Packing Group: II
Description: UN1760, Corrosive liquid, n.o.s. (Phosphoric acid), 8, II

UN-Number: UN1760
Proper Shipping Name: Corrosive liquid, n.o.s.
Hazard Class: 8
Packing Group: II
Description: UN1760, Corrosive liquid, n.o.s. (Phosphoric acid), 8, II

SAFETY DATA SHEET



14.3 ICAO

UN-Number: UN1760
Proper Shipping Name: Corrosive liquid, n.o.s.
Hazard Class: 8
Packing Group: II
Description: UN1760, Corrosive liquid, n.o.s., 8, II

14.4 IATA

UN-Number: UN1760
Proper Shipping Name: Corrosive liquid, n.o.s.
Hazard Class: 8
Packing Group: II
ERG Code: 8L
Description: UN1760, Corrosive liquid, n.o.s. (Phosphoric acid), 8, II

14.5 IMDG/IMO

UN-Number: UN1760
Proper Shipping Name: Corrosive liquid, n.o.s.
Hazard Class: 8
Packing Group: II
EmS No.: F-A, S-B
Description: UN1760, Corrosive liquid, n.o.s. (Phosphoric acid), 8, II

UN-Number: UN1760
Proper Shipping Name: Corrosive liquid, n.o.s.
Hazard Class: 8
Packing Group: II
Classification Code: C9
Description: UN1760, Corrosive liquid, n.o.s. (Phosphoric acid), 8, II

SAFETY DATA SHEET



14.6 ADR

UN-Number:	UN1760
Proper Shipping Name:	Corrosive liquid, n.o.s.
Hazard Class:	8
Packing Group:	II
Classification Code:	C9
Tunnel Restriction Code:	(E)
Description:	UN1760, Corrosive liquid, n.o.s. (Phosphoric acid), 8, II, (E)
ADR/RID-Labels:	8
Proper Shipping Name:	Corrosive liquid, n.o.s.
Hazard Class:	8
Packing Group:	II
Classification Code:	C9
Special Provisions:	274
Description:	UN1760, Corrosive liquid, n.o.s. (Phosphoric acid), 8, II
Limited Quantity:	1 L

15: Regulatory Information

15.1 International Inventories

TSCA:	Complies
DSL:	Complies
IECSC:	Complies
KECL:	Complies
PICCS:	Complies
AICS:	Complies

15.2 Legend

TSCA:	United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL:	Canadian Domestic Substances List/Non-Domestic Substances List
IECSC:	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

SAFETY DATA SHEET



15.3 U.S. Federal Regulations

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.

15.4 SARA 311/312 Hazard Categories

Acute Health Hazard: Yes
Chronic Health Hazard: No
Fire Hazard: No
Sudden Release of Pressure Hazard: No
Reactive Hazard: No

15.5 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):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phosphoric acid	5000 lb			X

15.6 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):

Chemical Name	Hazardous Substance RQs	Extremely Hazardous Substance RQs	RQ
Phosphoric acid	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

15.7 U.S. State Regulations

California Proposition 65:

This product does not contain any Proposition 65 chemicals.

SAFETY DATA SHEET



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

"X" designates that the ingredients are listed on the state right-to-know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Phosphoric acid	X	X	X		X

15.9 U.S. EPA Label Information

EPA Pesticide Registration Number: Not applicable

16: Other Information

NFPA:

Health Hazard: 3
Flammability: 0
Instability: 0
Physical and Chemical Hazards: -

HMIS:

Health Hazard: 3
Flammability: 0
Physical Hazard: 0
Personal Protection: X

Prepared By:

Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

General 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.