

MATERIAL SAFETY DATA SHEET

TRCHM0011EA & TRCHM0028EA

1. Product and Company Identification

Product name Liquid Ice Machine Cleaner (4207-08, 4834-08, 4207-47, 4834-C7)

CAS # Mixture

Product Use Cleaning scale from ice machines

Manufacturer Nu-Calgon

2008 Altom Court St. Louis, MO 63146 US

Phone: 314-469-7000 / 800-554-5499

Emergency Phone: 1-800-424-9300 (CHEMTREC)

2. Hazards Identification

Emergency overview DANGER

CAUSES EYE BURNS. CAUSES SKIN BURNS.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes Corrosive. Causes chemical burns. May cause blindness.

Skin Corrosive. Causes chemical burns.

Inhalation Inhalation of mist may cause respiratory tract irritation, coughing or headache.

Very high exposures may cause difficulty breathing, congestion, tightness of chest and

haemorrhage.

Ingestion Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

Target organs Eyes. Respiratory system. Skin.

Chronic effects Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis.

Signs and symptoms The product causes burns of eyes, skin and mucous membranes.

Potential environmental effects Components of this product have been identified as having potential environmental concerns.

3. Composition/Information on Ingredients

Components	CAS#	Percent
Phosphoric acid	7664-38-2	60 - 100

4. First Aid Measures

First aid procedures

Eye contact Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for

20 minutes. Obtain medical attention immediately.

Skin contact Immediately flush with cool water for 20 minutes while removing contaminated clothing and shoes.

Discard or wash well before reuse. Obtain medical attention if irritation persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Ingestion Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of

aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical

attention.

Notes to physician Treat patient symptomatically.

General advice Wear impervious gloves and chemical splash goggles. Use of an impervious apron is

recommended. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and

skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties Not flammable by WHMIS criteria.

Extinguishing media

Suitable extinguishing

media

Treat for surrounding material.

Unsuitable extinguishing

media

Not available

Protection of firefighters

Specific hazards arising from the chemical

Not available

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion

products

May include and are not limited to: Oxides of phosphorus. Hydrogen gas.

Explosion data

Sensitivity to mechanical

impact

Not available.

Sensitivity to static

discharge

Not available.

6. Accidental Release Measures

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch Personal precautions

damaged containers or spilled material unless wearing appropriate protective clothing. Keep

people away from and upwind of spill/leak.

Environmental precautions

Methods for containment

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or

confined areas.

Methods for cleaning up

Should not be released into the environment. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable. covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use.

7. Handling and Storage

Ensure adequate ventilation. Handling

> Do not get in eyes, on skin or on clothing. Avoid breathing vapours or mists of this product.

Use good industrial hygiene practices in handling this material.

Keep container tightly closed. Use only with adequate ventilation. Wash thoroughly after handling.

Store in a tightly closed container in a cool, dry and dark place away from incompatible materials. Storage

Value

Keep from freezing. Keep out of the reach of children.

8. Exposure Controls/Personal Protection

Occupational exposure limits

Components

US. ACGIH Threshold Limit Values

Componente	1300	Value
Phosphoric acid (CAS 7664-38-2)	STEL	3 mg/m3
	TWA	1 mg/m3

Type

Exposure limits See above

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne **Engineering controls**

levels below recommended exposure limits.

Personal protective equipment

Eye/Face protection Wear chemical goggles and face shield.

Hand protection Impervious gloves. Confirm with reputable supplier first.

Use of an impervious apron is recommended. Use of impervious boots is recommended. Skin and body protection

Avoid breathing mists or vapours. If airborne concentrations are above the applicable exposure Respiratory protection

limits, use NIOSH approved respiratory protection.

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

General hygiene considerations

Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

AppearanceClearColourColourlessFormLiquidOdourOdourlessOdour thresholdNot available.

Physical state Liquid.

< 1 (concentrate) pН Not available. Freezing point 260 °C (500 °F) **Boiling point** Pour point Not available. Not available **Evaporation rate** Flash point Not available Not available **Auto-ignition temperature** Not available Flammability Limits in Air,

Upper, % by Volume

opper, 70 by volume

Not available

Not available

Flammability Limits in Air, Lower, % by Volume

Heat of combustionNot available.Vapour pressure0.03 mmHg

Specific gravity 1.584

Partition coefficient

Not available

(n-octanol/water)
Solubility (Water)

Relative density

Vapour density

Complete

Not available.

Viscosity Not available.

Percent volatile Not available

10. Stability and Reactivity

Reactivity Reacts vigorously with alkaline material or metals.

Possibility of hazardous

reactions

Hazardous polymerisation does not occur.

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Reacts violently with alkaline material. This product may react with reducing agents. Do not mix

with other chemicals.

Incompatible materials

Caustics. Oxidizers. Bases. Reducing Agents.

Hazardous decomposition products

May include and are not limited to: Oxides of phosphorus. Hydrogen gas.

11. Toxicological Information

Toxicological data

Components Species Test results

Phosphoric acid (CAS 7664-38-2)

AcuteDermal

LD50 Rabbit 2740 mg/kg

Inhalation

LC50 Not available

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Test results Components **Species**

Oral

LD50 Rat 1530 mg/kg

Effects of acute exposure

Eve contact Corrosive. Causes chemical burns. May cause blindness.

Skin contact Corrosive. Causes chemical burns.

Inhalation of mist may cause respiratory tract irritation, coughing or headache. Inhalation

Very high exposures may cause difficulty breathing, congestion, tightness of chest and

haemorrhage.

Harmful if swallowed. May cause chemical burns to mouth, throat and stomach. Ingestion

Sensitisation Non-hazardous by WHMIS criteria. **Chronic effects** Non-hazardous by WHMIS criteria. Carcinogenicity Non-hazardous by WHMIS criteria. Non-hazardous by WHMIS criteria. Mutagenicity Non-hazardous b y WHMIS criteria. Reproductive effects Non-hazardous by WHMIS criteria. **Teratogenicity**

Name of Toxicologically

Not available. **Synergistic Products**

12. Ecological Information

Components of this product have been identified as having potential environmental concerns. **Ecotoxicity**

Persistence and degradability Not available. Bioaccumulation/accumulation Not available Mobility in environmental Not available.

media

Environmental effects Harmful to aquatic life.

Aquatic toxicity Not available. Not available. Partition coefficient Chemical fate information Not available.

13. Disposal Considerations

Review federal, state/provincial, and local government requirements prior to disposal. Dispose in **Disposal instructions**

accordance with all applicable regulations.

Waste from residues / unused

products

Not available

Contaminated packaging Not available

14. Transport Information

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

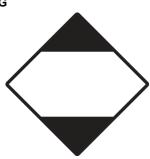
UN number UN1805

Proper shipping name PHOSPHORIC ACID, LIQUID

Hazard class Limited Quantity

Packing group

Packaging exceptions <5L - Limited Quantity



15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada WHMIS Ingredient Disclosure: Threshold limits

Phosphoric acid (CAS 7664-38-2) 1 %

WHMIS status Controlled

WHMIS Classification Class E - Corrosive Material

WHMIS labeling



Inventory status

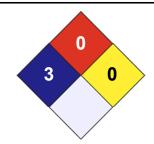
Country(s) or regionInventory NameOn Inventory (Yes/No)*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Other information For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the

document.