

SAFETY DATA SHEET

METAL SAFE ICE MACHINE CLEANER

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME METAL SAFE ICE MACHINE CLEANER
 PRODUCT NO. H420,H421
 SUPPLIER Virginia KMP Ltd
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2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
HYDROXYACETIC ACID	201-180-5	79-14-1	10-15%	C;R34.
PHOSPHORIC ACID ...%	231-633-2	7664-38-2	20-30%	C;R34

The Full Text for all R-Phrases are Displayed in Section 16

3 HAZARDS IDENTIFICATION

Causes burns.

CLASSIFICATION C;R34.

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Perform artificial respiration if breathing has stopped. Get medical attention.

INGESTION

DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Immediately rinse mouth and provide fresh air. Get medical attention immediately!

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing. Chemical burns must be treated by a physician.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Immediately rinse with water. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES

Keep up-wind to avoid fumes. Beware, risk of formation of toxic and corrosive gases. Use water to keep fire exposed containers cool and disperse vapours.

SPECIFIC HAZARDS

The product is non-combustible. If heated, corrosive and toxic vapours/gases may be formed.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS

Avoid discharge to the aquatic environment.

SPILL CLEAN UP METHODS

Stop leak if possible without risk. DO NOT touch spilled material! Ventilate well. Neutralise spilled material with crushed limestone, soda ash or lime. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush with plenty of water to clean spillage area. Wash thoroughly after dealing with a spillage.

METAL SAFE ICE MACHINE CLEANER**7 HANDLING AND STORAGE**

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Avoid inhalation of vapours. Provide good ventilation.

STORAGE PRECAUTIONS

Keep in original container. Keep away from food, drink and animal feeding stuffs. Store away from Alkalies.

STORAGE CLASS

Corrosive storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
PHOSPHORIC ACID ...%	OES		1 mg/m3		2 mg/m3

INGREDIENT COMMENTS

OES = Occupational Exposure Standard.

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

Provide eyewash, quick drench.

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Occupational Exposure Limit

HAND PROTECTION

Use protective gloves made of: Impermeable material. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear full-face visor or shield.

OTHER PROTECTION

AVOID ALL SKIN AND RESPIRATORY CONTACT! Wear rubber apron. Wear rubber footwear.

HYGIENE MEASURES

Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Colourless		
ODOUR	Odourless		
SOLUBILITY	Soluble in water		
BOILING POINT (°C)	130°C	RELATIVE DENSITY	1.2
VAPOUR DENSITY (air=1)	1.0	EVAPORATION RATE	> 1 (ButAc=1)
pH-VALUE, CONC. SOLUTION	1.0 - 2.0		

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use. Avoid: Contact with alkalis.

CONDITIONS TO AVOID

Avoid heat. Reacts with alkalis and generates heat. In contact with metals generates hydrogen gas, which together with air can form explosive mixtures.

HAZARDOUS POLYMERISATION

Will not polymerise.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire or high temperatures may form toxic and corrosive vapours. Carbon monoxide (CO). Carbon dioxide (CO₂). Oxides of: Phosphorus.

METAL SAFE ICE MACHINE CLEANER**11 TOXICOLOGICAL INFORMATION**

Name PHOSPHORIC ACID ...%

Toxic Dose 1 - LD 50 1530 mg/kg (oral rat)

Name HYDROXYACETIC ACID

Toxic Dose 1 - LD 50 1950 mg/kg (oral rat)

INHALATION

Very toxic by inhalation. Irritating to respiratory system.

INGESTION

Causes severe burns. Very toxic if swallowed.

SKIN CONTACT

Causes severe burns. Very toxic in contact with skin.

EYE CONTACT

Causes severe burns. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

HEALTH WARNINGS

NOTE! Effects may be delayed. Keep affected person under observation.

TARGET ORGANS

Skin. Eyes. Kidneys. Liver.

MEDICAL SYMPTOMS

Coughing. Difficulty in breathing. Headache. Nausea, vomiting. Unconsciousness.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

ACUTE FISH TOXICITY

Phosphoric Acid: 138 ppm/24h/mosquito fish/TLm/fresh water.

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

UK ROAD CLASS 8

PROPER SHIPPING NAME CORROSIVE LIQUID, N.O.S. (PHOSPHORIC ACID, HYDROXYACETIC ACID)

UN NO. ROAD	1760	UK ROAD PACK GR.	III
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	III	HAZARD No. (ADR)	80
ADR LABEL NO.	8	HAZCHEM CODE	2X
CEFIC TEC(R) NO.	80GC9-II+III	RID CLASS NO.	8
RID PACK GROUP	III	UN NO. SEA	1760
IMDG CLASS	8	IMDG PAGE NO.	8
IMDG PACK GR.	III	EMS	F-A, S-B
MFAG	See Guide	MARINE POLLUTANT	No.
UN NO. AIR	1760	ICAO CLASS	8
AIR PACK GR.	III		

15 REGULATORY INFORMATION**LABELLING**

METAL SAFE ICE MACHINE CLEANER



Corrosive

CONTAINS

HYDROXYACETIC ACID
PHOSPHORIC ACID ...%

RISK PHRASES

R34 Causes burns.

SAFETY PHRASES

S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S60 This material and its container must be disposed of as hazardous waste.

STATUTORY INSTRUMENTS

Control of Substances Hazardous to Health. Chemicals (Hazard Information and Packaging) Regulations.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

GUIDANCE NOTES

Occupational Exposure Limits EH40. CHIP for everyone HSG(108).

16 OTHER INFORMATION

REVISION DATE 11-2004
REV. NO./REPL. SDS GENERATED 1 / 01-2001
RISK PHRASES IN FULL
R34 Causes burns.

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