



SAFETY DATA SHEET

HI-PHOS

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	HI-PHOS
PRODUCT NO.	A072 EV
INTERNAL ID	P.96
APPLICATION	Acidic Descaling Toilet Cleaner and Hard Surface Cleaner for washrooms
SUPPLIER	Evans Vanodine International Brierley Road Walton Summit Preston. PR5 8AH Tel: 01772 322 200 Fax: 01772 626 000 qclab@evansvanodine.co.uk
EMERGENCY TELEPHONE	New Safety Data Sheets - 8.30am to 4.45pm - 01772 322 200 - Mon to Fri Technical Advice - 8.30am to 4.45pm - 01772 318 818 - Mon to Fri

2 HAZARDS IDENTIFICATION

Irritating to skin. Risk of serious damage to eyes.

CLASSIFICATION Xi;R38, R41.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
PHOSPHORIC ACID ...%	231-633-2	7664-38-2	10-20%	C;R34
OLEYLTRIMETHYLAMMONIUM CHLORIDE	233-938-6	10450-69-8	1-5%	Xn;R22. C;R34. N;R50.
PROPAN-2-OL	200-661-7	67-63-0	1-5%	F;R11 Xi;R36 R67
TALLOWBIS(2-HYDROXYETHYL)AMINE OXIDE	263-179-6	61791-46-6	1-5%	Xi;R38,R41. N;R50.
AMMONIUM CHLORIDE	235-186-4	12125-02-9	1-5%	Xn;R22 Xi;R36

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

4 FIRST-AID MEASURES

INHALATION

Not relevant. Inhalation unlikely.

INGESTION

DO NOT INDUCE VOMITING! Drink a few glasses of water or milk. Get medical attention.

SKIN CONTACT

Remove contaminated clothing. Get medical attention if irritation persists after washing.

EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

SPECIFIC HAZARDS

By heating and fire, harmful vapours/gases may be formed.

HI-PHOS

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 eye/face protection. (See Sec 8) Avoid contact with skin.

ENVIRONMENTAL PRECAUTIONS

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS

Small quantities may be flushed to drains with plenty of water. Large Spillages Pick up with vacuum or absorbent solid, store in closed container for disposal.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Wear eye protection. Avoid contact with skin.

STORAGE PRECAUTIONS

Store at moderate temperatures in dry, well ventilated area. Keep in original container. Store away from Oxidising material. (eg Hypochlorite) Oxidising material.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
AMMONIUM CHLORIDE	WEL		10 mg/m3		20 mg/m3
PHOSPHORIC ACID ...%	WEL		1 mg/m3		2 mg/m3
PROPAN-2-OL	WEL	400 ppm	999 mg/m3	500 ppm	1250 mg/m3

INGREDIENT COMMENTS

WEL = Workplace Exposure Limit for COSHH assessments in the UK, -----

ST = Short-Term Exposure Limit (15 minute) & LT = Long-Term Exposure Limit (8 hours).

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Not relevant.

RESPIRATORY EQUIPMENT

Respiratory protection not required.

HAND PROTECTION

For prolonged or repeated skin contact use suitable protective gloves. (Household rubber gloves.)

EYE PROTECTION

Use eye protection.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Viscous Liquid		
COLOUR	Clear Blue		
ODOUR	Wintergreen.		
SOLUBILITY	Soluble in water		
BOILING POINT (°C)	103	MELTING POINT (°C)	-3
RELATIVE DENSITY	1.116 @ 20 °c	pH-VALUE, CONC. SOLUTION	0.50
FLASH POINT (°C)	Boils without flashing.		

HI-PHOS

10 STABILITY AND REACTIVITY

STABILITY

No particular stability concerns.

MATERIALS TO AVOID

Concentrated alkaline materials. Chlorine releasing materials will liberate toxic chlorine gas.

11 TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION

Refer to section 2.

Other Health Effects

Low oral toxicity, but ingestion may cause irritation of the gastro-intestinal tract.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

LC 50, 96 Hrs, FISH mg/l Tallowbis(2-Hydroxyethyl)Amine Oxide [CAS N°61791-46-6](Brachdanio) 1.0mg/l & Oleyltrimethylammonium Chloride [CAS N°10450-69-8] 0.1 - 1.0mg/

BIOACCUMULATION

The product does not contain any substances expected to be bioaccumulating.

DEGRADABILITY

This product, at use dilutions, is readily broken down in biological effluent treatment plants.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Empty Container can be consigned to normal waste. Unwanted material should be disposed of as hazardous waste by registered contractor.

14 TRANSPORT INFORMATION



PROPER SHIPPING NAME	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (phosphoric acid, liquid)		
UN NO. ROAD	3264	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	III	RID CLASS NO.	Class 8: Corrosive substances.
RID PACK GROUP	III	UN NO. SEA	3264
IMDG CLASS	Class 8: Corrosive substances.	IMDG PACK GR.	III
MARINE POLLUTANT	No.	UN NO. AIR	3264
AIR CLASS	Class 8: Corrosive substances.	AIR PACK GR.	III

15 REGULATORY INFORMATION

LABELLING



Irritant

HI-PHOS

RISK PHRASES

R41 Risk of serious damage to eyes.
R38 Irritating to skin.

SAFETY PHRASES

S2 Keep out of the reach of children
S39 Wear eye/face protection.
S24 Avoid contact with skin.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S46 If swallowed, seek medical advice immediately and show this container or label.
S50A Do not mix with other chemicals especially chlorine releasing bleaches as toxic gas will be evolved.

ENVIRONMENTAL LISTING

Hazardous Waste (England and Wales) Regulations.

EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EC. As amended by Directive 93/112/EC, 2001/58/EC and 2006/8/EC.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. 2008

APPROVED CODE OF PRACTICE

The compilation of safety Data Sheets L130.

GUIDANCE NOTES

Workplace Exposure Limits EH40. As amended in 2005. Approved guide to the Classification and Labelling of Substances and Preparations Dangerous for Supply. L100

16 OTHER INFORMATION

INFORMATION SOURCES

Approved Supply List - HSC (Health & Safety Commission) Material Safety Data Sheet, Misc. manufacturers.

REVISION COMMENTS

Safety Data sheet reviewed under CHIP 2008 [2nd ATP to Dangerous Preparations Directive 2006/8/EC] no change in product classification (Changes to sections 12 & 16.) plus Changes required for REACH (additions to Section 1 and change of order of sections 2 and 3).

REVISION DATE 18/12/08

REV. NO./REPL. SDS Issue 3

GENERATED

RISK PHRASES IN FULL

R11 Highly flammable.
R22 Harmful if swallowed.
R34 Causes burns.
R36 Irritating to eyes.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R50 Very toxic to aquatic organisms.
R67 Vapours may cause drowsiness and dizziness.