

SKIN CONTACT

Harmful if absorbed, very destructive to skin. Remove contaminated clothing and wash skin with plenty of running water, under a shower if affected area is large enough to warrant this. Get medical attention immediately.

EYE CONTACT

Very destructive to the cornea. Rinse immediately eye with plenty of low pressure water for at least 15 minutes. Remove any contact lenses. Get medical attention immediately.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

The product is non flammable and non combustible. In case of fire in the surroundings: all extinguishing agents allowed.

SPECIAL FIRE FIGHTING PROCEDURES

Keep drums, etc. cool by spraying with water

UNUSUAL FIRE & EXPLOSION HAZARDS

Contact with common metals produces hydrogen gas which forms flammable mixtures with air.

SPECIFIC HAZARDS

Gives off irritating or toxic fumes (or gases) in a fire.

PROTECTIVE MEASURES IN FIRE

Wear full protective clothing and MSHA/NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

See section 8.

ENVIRONMENTAL PRECAUTIONS

Take precautionary measures against discharges into the environment (high concentrations may injure aquatic life due to low pH).

SPILL CLEAN UP METHODS

Avoid any contact with eyes and skin. Wear personal protection (see section 8).

Sweep spilled substance into containers. Cautiously neutralize remainder. Carefully collect remainder, then remove to safe place (extra personal protection: self-contained breathing apparatus).

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

NEVER pour water into this substance; when dissolving or diluting always add it slowly to the water.

Corrosive. Avoid any contact with eyes or skin.

Wash thoroughly after handling and before eating, drinking or smoking.

STORAGE PRECAUTIONS

Corrosive. Keep tightly closed and in a cool, dry place.

Separated from food and feedstuffs, metals, alcohols, aldehydes, esters, phenols, ketones, sulfides, cyanides, organic peroxides.

Keep in a well-ventilated room.

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8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS

TLV: ppm; 1 mg/m³ (ACGIH 1991-1992).
TLV (as STEL): ppm; 3 mg/m³ (ACGIH 1991-1992).
OSHA PEL: TWA 1 mg/m³
NIOSH REL: TWA 1 mg/m³, ST 3 mg/m³
NIOSH IDLH: 1000 mg/m³

PROTECTIVE EQUIPMENT

Protective gloves, safety goggles / face shields and protective clothing.

RESPIRATORY EQUIPMENT

In the event where significant exposure is possible (e.g. in dealing with spills, fire or exposure to vapour and/or toxic fumes) wear self-contained breathing apparatus.

HAND PROTECTION

Protective gloves must be used.

EYE PROTECTION

Wear approved safety goggles / face shields

HYGIENE MEASURES

Wash at the end of each work shift and before eating, drinking, smoking or using the toilet.

SKIN PROTECTION

Wear protective clothing and protective boots.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	clear liquid
COLOUR	colourless
SOLUBILITY IN WATER	fully miscible with water
SPECIFIC GRAVITY	1.685 (85%)

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

MATERIALS TO AVOID

The substance violently polymerizes under the influence of azo compounds, epoxides and other polymerisable compounds. On combustion, forms toxic fumes (phosphorous oxides). The substance decomposes on contact with metals, alcohols, aldehydes, cyanides, ketones, phenols, esters, sulfides, halogenated organics producing toxic fumes. The substance is a medium strong acid. Attacks metals to liberate flammable hydrogen gas.

HAZARDOUS DECOMPOSITION PRODUCTS

Phosphorous oxides.

11 TOXICOLOGICAL INFORMATION

GENERAL

LD 50 (ORAL RAT) 1530 mg/kg
LD 50 (SKIN RAT) 2740 mg/kg

INHALATION

Respiratory tract irritation and coughing will develop. Aspiration pneumonia has occurred.

INGESTION

Irritation or burns of the digestive tract will occur following ingestion. Nausea, vomiting, abdominal pain, hematemesis, bloody diarrhoea, and perforation with severe burns may be noted.

SKIN CONTACT

Dermal irritation or burns will develop

EYE CONTACT

Eyes, nose, and throat irritation will occur

12 ECOLOGICAL INFORMATION

ECOTOXICITY

None. High concentrations may injure aquatic life due to high pH.

WATER HAZARD CLASSIFICATION

none

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Place into a suitable closed container for disposal.

DISPOSAL METHODS

Cautiously add to a large stirred excess of water. Adjust the pH to neutral. Flush the aqueous solution down the drain with plenty of water. The dilution and neutralisation may generate heat and fumes which can be controlled by the rate of addition.

Dispose of in accordance with local and national regulations.

14 TRANSPORT INFORMATION

GENERAL

Do not transport with food and feedstuffs.

C (corrosive) symbol

UN Hazard Class 8
UN Packing Group III
UN number 1805

Hazchem code 2R
IMDG/ICAO 8204
FMS number 8-08
MFAG number 700
Tremcard number CC HDS 76

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15 REGULATORY INFORMATION

LABELLING	C (corrosive)
CONTAINS	phosphoric acid (81%)
RISK PHRASES	R34 causes burns
SAFETY PHRASES	S1/2 Keep locked up and out of the reach of children S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S45 In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging) Regulations. The Control of Substances Hazardous to Health Regulations 1988. Health and Safety at Work Act 1974.

ENVIRONMENTAL LISTING

Control of Pollution Act 1974.

EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EC. Dangerous Preparations Directive 1999/45/EC.

STATUTORY INSTRUMENTS

Notification of New Substances Regulations (NONS) 1993. The Export and Import of Dangerous Chemicals Regulations 2005 number 928.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply (EU 2001/59/EC). Safety Data Sheets for Substances and Preparations (REACH)

GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

Workplace Exposure Limits 2005 (EH40).

The Carriage of Dangerous Goods and use of transportable pressure equipment regulations 2004.

Control of Substances hazardous to health regulations 2002 (as amended).

16 OTHER INFORMATION

ISSUED BY HS&E Manager

REVISION DATE: 23/02/2008

RISK PHRASES IN FULL

R34 causes burns

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