

SAFETY DATA SHEET
BRICK ACID (HIGH STRENGTH)

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

PRODUCT NAME BRICK ACID (HIGH STRENGTH)
PRODUCT NO. 2496
APPLICATION General chemical reagent
SUPPLIER Reagent Chemical Services
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2 HAZARDS IDENTIFICATION

Causes burns. Irritating to respiratory system.

CLASSIFICATION C;R34. Xi;R37.

3 COMPOSITION/INFORMATION ON INGREDIENTS

| Name | EC No. | CAS-No. | Content | Classification |
|------------------------|-----------|-----------|---------|----------------|
| HYDROCHLORIC ACID ...% | 231-595-7 | 7647-01-0 | 30-60% | C;R34 Xi;R37 |

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

4 FIRST-AID MEASURES

INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

INGESTION

Do not induce vomiting. Immediately rinse mouth and drink plenty of water. Get medical attention immediately!

SKIN CONTACT

Immediately remove contaminated clothing and wash before re-use. Rinse the skin immediately with lots of water. Get medical attention immediately.

EYE CONTACT

May cause permanent damage if eye is not immediately irrigated. Promptly wash eyes with plenty of water or eye wash solution while lifting the eyelids. If possible remove any contact lenses and continue to wash. Get medical attention immediately.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

SPECIFIC HAZARDS

In case of fire, toxic and corrosive 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.

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SPILL CLEAN UP METHODS

Small Spillages Neutralise with soda-ash. Large Spillages Dam and absorb spillages with sand, earth or other inert, non-combustible material. Collect spillage in sealable containers. Neutralise with aqueous soda ash slurry (CAUTION - VIGOROUS REACTION, HEAT GENERATED) and leave for 24 hours before sealing tightly. Flush area clean with lots of water. Be aware of potential for surfaces to become slippery. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Wash thoroughly after dealing with a spillage.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry and cool place.

STORAGE CLASS

Corrosive storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

| Name | Std | LT - ppm | LT - mg/m3 | ST - ppm | ST - mg/m3 |
|------------------------|-----|----------|------------|----------|------------|
| HYDROCHLORIC ACID ...% | WEL | 1 ppm | 2 mg/m3 | 5 ppm | 8 mg/m3 |

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded. Work in fume cupboard.

RESPIRATORY EQUIPMENT

In case of inadequate ventilation use suitable respirator.

HAND PROTECTION

Use full-length gloves. Rubber or plastic. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. 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 goggles/face shield.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination. Provide eyewash station and safety shower.

HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes wet or contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|--------------------|----------------------|--------------------------|-----------|
| APPEARANCE | Liquid | | |
| COLOUR | Colourless | | |
| ODOUR | Pungent | | |
| SOLUBILITY | Miscible with water. | | |
| BOILING POINT (°C) | About 85 | MELTING POINT (°C) | About -40 |
| RELATIVE DENSITY | 1.1 - 1.2 | pH-VALUE, CONC. SOLUTION | <1 |

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

MATERIALS TO AVOID

Amines. Inorganic hydrides. Alkali metals. Alkali earth metals. Metals. Strong oxidising substances. Strong alkalis. Aldehydes. Aluminium. Fluorine Sulphides

11 TOXICOLOGICAL INFORMATION

INHALATION

Irritating to respiratory system.

INGESTION

Corrosive. Even small amounts may cause serious damage.

BRICK ACID (HIGH STRENGTH)

SKIN CONTACT

Causes burns.

EYE CONTACT

Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

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

ACUTE FISH TOXICITY

Lethal from 25 mg/l (Hydrochloric acid)

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 | HYDROCHLORIC ACID | | |
| UN NO. ROAD | 1789 | UK ROAD PACK GR. | II |
| ADR CLASS NO. | 8 | ADR CLASS | Class 8: Corrosive substances. |
| ADR PACK GROUP | II | ADR LABEL NO. | 8 |
| HAZCHEM CODE | 2R | CEFIC TEC(R) NO. | 80GC1-II+III |
| RID CLASS NO. | 8 | RID PACK GROUP | II |
| UN NO. SEA | 1789 | IMDG CLASS | 8 |
| IMDG PAGE NO. | 8 | IMDG PACK GR. | II |
| EMS | F-A, S-B | MARINE POLLUTANT | No. |
| UN NO. AIR | 1789 | AIR CLASS | 8 |
| AIR PACK GR. | II | | |

15 REGULATORY INFORMATION

LABELLING



Corrosive

CONTAINS HYDROCHLORIC ACID 30%

RISK PHRASES

R34 Causes burns.
R37 Irritating to respiratory system.

SAFETY PHRASES

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 label where possible).
S51 Use only in well-ventilated areas.
S24/25 Avoid contact with skin and eyes.

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S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S60 This material and its container must be disposed of as hazardous waste.

STATUTORY INSTRUMENTS

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

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. COSHH essentials: Easy steps to control chemicals.
Control of Substances Hazardous to Health Regulations.

GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

NATIONAL REGULATIONS

Control of Substances Hazardous to Health Regulations 2002 (as amended)

16 OTHER INFORMATION

REVISION COMMENTS

This is first issue.

REV. NO./REPL. SDS GENERATED 0

SDS NO. 11330

SAFETY DATA SHEET STATUS

Approved.

DATE 02/04/2008

RISK PHRASES IN FULL

R34 Causes burns.

R37 Irritating to respiratory system.