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1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade name: Amefix

Chemical characterization

This product is a mixture of hydrochloric acid, detergents and auxillary components in water.

Supplier

Americol B.V.

Sluispolderweg 33

1505 HJ Zaandam - The Netherlands

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Contact Person Rene Doornink

2 COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Mix with Quartenaire Fattamin ethoxylat

Content (%Vol): 1 - 10

Symbol(s): Xi N

CAS-, EINECS/EC-number: BLEND

Risk phrase(s): R38, R41, R51/53

Hydrochloric-acid

Content (%Vol): 10 - 25

Symbol(s): C

CAS-, EINECS/EC-number: 7647-01-0

Risk phrase(s): R34, R37

3 HAZARDS IDENTIFICATION

Eyes

The product is irritant for the eyes.

Skin

Highly irritating.

Inhalation

Irritant to respiratory system.

Ingestion

Stomach ache, diarrhoea

Risk phrase(s)

R36/37/38 : Irritating to eyes, respiratory system and skin.

4 FIRST AID MEASURES

Eye contact

Flushing for 15 minutes until irritation subsides.

If irritation persists, seek medical attention.

Skin contact

Wash contaminated area thoroughly with soap and water. Remove impregnated clothing.

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Inhalation

If victim is unconscious, remove to fresh air and seek medical attention.

Ingestion

Do not induce vomiting due to aspiration hazards. Seek medical advice.

Rinse mouth, give water to drink.

5 FIRE FIGHTING MEASURES

Decomposition product(s)

Carbonoxide (COx), water (H2O).

6 ACCIDENTAL RELEASE MEASURES

Personel protective measures

Always wash hands and face with soap and water before eating, drinking, or smoking.

Environmental measures

Do not allow to escape into water sewage system or water courses.

Disposal/cleaning measures

Danger of slipping; take up immediately.

Collect as much as possible in clean containers and dispose according the rules.

Flush remainder with water.

7 HANDLING AND STORAGE

Handling

Store in accordance with local/national regulations.

Avoid freezing.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye protection

Wear safety goggles.

Skin and body protection

Avoid contact with skin, eyes and clothing.

Hand protection

Wear suitable gloves (PVC or rubber).

Respiratory protection

Provide adequate ventilation.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid
Colour : Colourless
Odour : Characteristic
Solubility in water : Soluble in water.

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Solubility in : -

Meltingpoint (řC) : <0
Boilingpoint (řC) : >100
Flashpoint (řC) : -
Auto ignition temp (řC) : -
Vapour pressure (mmHg) : -
Density 20řC : 1.13
pH 100% : <1
Viscosity at 20řC (cP) : 2
Conductivity (ćS) : -
Evaporation rate (n-butylac.= 1): -
Explosion limits (%Vol.) : -

10 STABILITY AND REACTIVITY

Conditions to avoid
There is no risk of dangerous reactions at normal use.

11 TOXICOLOGICAL INFORMATION

This product is not harmful. This is based on the classification
of the single components.

12 ECOLOGICAL INFORMATION

Primary degradation > 90%. Complies with the EEC directive
73/404/EEC on biodegradation for surfactants.

13 DISPOSAL CONSIDERATIONS

All disposals must comply with federal, state, and local regulations.

14 TRANSPORT INFORMATION

Description goods
This product is a mixture of hydrochloric acid, detergents
and auxillary components in water.

Transport (Land) ADR/RID: -
Transport (Ship -> Channals) ADN/ADNR : -

Transport (Ship -> Sea) IMDG/GGVE : -
Transport (Ship -> Sea) UN No. : -
Transport (Ship -> Sea) Packing group : -
Transport (Ship -> Sea) EMS No. : -
Transport (Ship -> Sea) MFAG No. : -
Transport (Ship -> Sea) Marine pollutant: No

Transport (Air) IATA-DRG/ICAO-TI : -
Transport (Air) Packing group : -

15 REGULATORY INFORMATION

Symbols: Xi
Risk and Safety phrases
R36/37/38 : Irritating to eyes, respiratory system and

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skin.
S02 : Keep out of the reach of children.
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.
S37 : Wear suitable gloves.

Local regulations
Waterhazardous class 1 (Slightly environmental hazardous).

16 OTHER INFORMATION

Version : 02
This MSDS sheet is created on date : 11-11-1997
Last revision on date : 16-05-2003
This MSDS sheet was printed on date : 07-02-2005

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties. It is in the users responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.