

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : 1-Ethyl-3-methylimidazolium ethyl sulfate

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008
This substance is not classified as dangerous according to Directive 67/548/EEC.

Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.
Caution - substance not yet tested completely.

Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula	: C8H16N2O4S		
Molecular Weight	: 236,29 g/mol		
CAS-No.	EC-No.	Classification	Concentration
<u>1-Ethyl-3-methyl</u> Imidazolium ethylsulfate			
342573-75-5	-	-	-

4. FIRST AID MEASURES

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact
Wash off with soap and plenty of water.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Avoid breathing vapors, mist or gas.

Environmental precautions
Do not let product enter drains.

Methods and materials for containment and cleaning up
Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling
Normal measures for preventive fire protection.

Conditions for safe storage
Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

hygroscopic Store under inert gas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection
Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Eye protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection
impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures
General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	viscous
Colour	light yellow
Odour	sweet

Safety data

pH	8,2 at 100 g/l
Melting point	< -30 °C
Boiling point	no data available
Flash point	154,5 °C - ISO 2719
Ignition temperature	410 °C
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	1.239 g/cm3 at 20 °C
Water solubility	completely soluble
Partition coefficient: n-octanol/water	log Pow: < 0,3
Viscosity, kinematic	98,7 mm2/s at 25 °C

10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Conditions to avoid
no data available

Materials to avoid
Strong oxidizing agents

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides

Thermal decomposition
325 °C

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50 Oral - rat - > 2.000 mg/kg
LC50 Dermal - rat - > 2.000 mg/kg

Skin corrosion/irritation
Skin - rabbit - No skin irritation - OECD Test Guideline 404

Serious eye damage/eye irritation
Eyes - rabbit - No eye irritation - OECD Test Guideline 405

Respiratory or skin sensitization
mouse - Did not cause sensitization on laboratory animals.

Germ cell mutagenicity
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity
no data available
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

no data available

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Additional Information	
RTECS:	Not available

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish	static test LC50 - Cyprinus carpio (Carp) - > 100 mg/l - 96 h Method: ISO 7346/1
Toxicity to daphnia and other aquatic invertebrates.	static test LC50 - Daphnia - > 100 mg/l - 48 h Method: OECD Test Guideline 202
Toxicity to algae	Growth inhibition - SELENASTRUM - > 100 mg/l Method: ISO 8692
Toxicity to bacteria	LC50 - other microorganisms - > 100 mg/l - 0,5 h

Persistence and degradability

Biodegradability aerobic
Method: Tested according to Directive 92/69/EEC.
Remarks: According to the results of tests of biodegradability this product is not readily biodegradable.

Physico-chemical removability Remarks: Not readily eliminated from water.

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID
Not dangerous goods

IMDG
Not dangerous goods

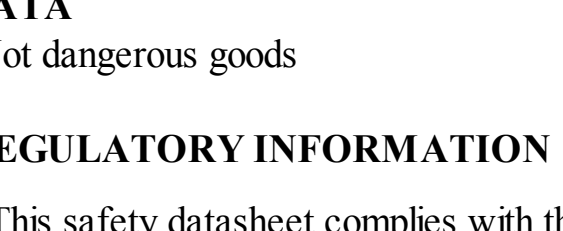
IATA
Not dangerous goods

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. OTHER INFORMATION

Further information



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