

Material Safety Data Sheet

Version 3.2
Revision Date 06/03/2009
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1. PRODUCT AND COMPANY IDENTIFICATION

Product name : 1-Ethyl-3-methylimidazolium
bis(trifluoromethylsulfonyl)imide

Product Number : 11291
Brand : Fluka

Company : Sigma-Aldrich Canada, Ltd
2149 Winston Park Drive
OAKVILLE ON L6H 6J8
CANADA

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : EMIMIm
EMIM TFSI
EMIM BTI

Formula : $C_8H_{11}F_6N_3O_4S_2$
Molecular Weight : 391.31 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
1-Ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide			
174899-82-2	-	-	-

3. HAZARDS IDENTIFICATION**WHMIS Classification**

D1B Toxic Material Causing Immediate and
E Serious Toxic Effects

Toxic by ingestion
Toxic by skin absorption
Corrosive

HMIS Classification

Health Hazard: 3
Flammability: 1
Physical hazards: 0

Potential Health Effects

Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Skin Toxic if absorbed through skin. Causes skin burns.

Eyes Causes eye burns.

Ingestion

Toxic if swallowed. Causes burns.

4. FIRST AID MEASURES**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES**Flammable properties**

Flash point > 200 °C (> 392 °F)

Ignition temperature no data available

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**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods for cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE**Handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Store under inert gas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves.

Eye protection

Tightly fitting safety goggles. Faceshield (8-inch minimum).

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	liquid
Colour	light yellow

Safety data

pH	no data available
Melting point	15 °C (59 °F)
Boiling point	no data available
Flash point	> 200 °C (> 392 °F)
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	1.5236 g/cm ³ at 20 °C (68 °F) at 1.013 hPa (0.760 mmHg)
Water solubility	no data available
Partition coefficient: n-octanol/water	log Pow: -0.8
Solubility	

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

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

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

no data available

Dermal: Toxic in contact with skin.

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

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.

Potential Health Effects

Inhalation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Skin	Toxic if absorbed through skin. Causes skin burns.
Eyes	Causes eye burns.
Ingestion	Toxic if swallowed. Causes burns.

12. ECOLOGICAL INFORMATION**Elimination information (persistence and degradability)**

no data available

Ecotoxicity effects

no data available

Toxicity to daphnia and other aquatic invertebrates. Remarks: no data available

Toxicity to algae Remarks: no data available

Further information on ecology

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS**Product**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN-Number: 2922 Class: 8 (6.1) Packing group: III
Proper shipping name: Corrosive liquids, toxic, n.o.s. (1-Ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide)
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG

UN-Number: 2922 Class: 8 (6.1) Packing group: III EMS-No: F-A, S-B
Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (1-Ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide)
Marine pollutant: No

IATA

UN-Number: 2922 Class: 8 (6.1) Packing group: III
Proper shipping name: Corrosive liquid, toxic n.o.s. (1-Ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide)

15. REGULATORY INFORMATION

DSL Status

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

1-Ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide	CAS-No. 174899-82-2
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WHMIS Classification

D1B	Toxic Material Causing Immediate and	Toxic by ingestion
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		Corrosive

16. OTHER INFORMATION

Further information

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