SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Trade name: 1-Ethyl-3-methylimidazolium dicyanamide 99,5%
Article number: IM0211B
CAS Number: 370865-89-7
EC number: 609-330-5

1.2 Relevant identified uses of the substance or mixture and uses advised against
No other important information available.

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
Solvionic SA
195 route d'Espagne
31036 TOULOUSE
FRANCE
Phone number: +33 (0)5.34.63.35.35
Further information obtainable from: HSE Department

1.4 Emergency telephone number:
ORFILA (INRS): +33 (0)1.45.42.59.59
CCHST: 1-800-668-4284 (Canada & U.S.A)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008

GHS07
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1B H317 May cause an allergic skin reaction.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS07

Signal word Warning

Hazard statements
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.

Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves / eye protection / face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see on this label).
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

(Contd. on page 2)
 SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation: Substances
- CAS No. / Description
  370865-89-7 1-Ethyl-3-methylimidazolium dicyanamide
- Identification number(s)
  EC number: 609-330-5
  Molecular formula: C8 H11 N5
  Molar mass: 177.21 g/mol

 SECTION 4: First aid measures

4.1 Description of first aid measures
- General information:
  Immediately remove any clothing soiled by the product.
- After inhalation:
  In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:
  Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:
  Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

 SECTION 5: Firefighting measures

5.1 Extinguishing media
- Suitable extinguishing agents:
  Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture
Hydrogen cyanide (HCN)

5.3 Advice for firefighters
- Protective equipment:
  Mouth respiratory protective device.
  Wear fully protective suit.

 SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use individual protective gear.

6.2 Environmental precautions:
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

 SECTION 7: Handling and storage

7.1 Precautions for safe handling
No special precautions are necessary if used correctly.

7.2 Conditions for safe storage, including any incompatibilities
- Storage:
  Requirements to be met by storerooms and receptacles: No special requirements.
  Information about storage in one common storage facility: Not required.
  Further information about storage conditions: Keep container tightly sealed.

7.3 Specific end use(s)
No further relevant information available.
SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
  . **Additional information:** The lists valid during the making were used as basis.

8.2 Exposure controls
- **Personal protective equipment:**
  . **General protective and hygienic measures:**
    Keep away from foodstuffs, beverages and feed.
    Immediately remove all soiled and contaminated clothing
    Wash hands before breaks and at the end of work.
    Avoid contact with the eyes and skin.
  . **Respiratory protection:** Not required.
  . **Protection of hands:**
    Protective gloves
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
    Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
    Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
  . **Eye protection:**
    Tightly sealed goggles

- **Body protection:** Use protective suit.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
- **General Information**
  . **Appearance:** Fluid
  . **Colour:** Yellow
  . **Odour:** Not determined.
  . **Odour threshold:** Not determined.
  . **pH-value:** Not determined.
  . **Conductivity**
    . at 20°C: 18.9 mS/cm
    . at 25°C: 22 mS/cm
  . **Change in condition**
    . **Melting point/freezing point:** -13.6 °C
    . **Initial boiling point and boiling range:** Undetermined.
    . **Crystallisation temperature / range:** 53.1 °C
  . **Flash point:** 221 °C
  . **Flammability (solid, gas):** Not applicable.
  . **Ignition temperature:** 454 °C
  . **Decomposition temperature:** Not determined.
  . **Auto-ignition temperature:** Not determined.
  . **Explosive properties:** Product does not present an explosion hazard.
  . **Explosion limits:**
    . **Lower:** Not determined.
    . **Upper:** Not determined.
  . **Vapour pressure:** Not determined.
  . **Density at 20 °C:** 1,109 g/cm³

(Contd. on page 4)
### SECTION 10: Stability and reactivity

**10.1 Reactivity**
No further relevant information available.

**10.2 Chemical stability**
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

**10.3 Possibility of hazardous reactions**
No dangerous reactions known.

**10.4 Conditions to avoid**
No further relevant information available.

**10.5 Incompatible materials:**
Strong oxidizer and strong base.

**10.6 Hazardous decomposition products:**
No dangerous decomposition products known.

### SECTION 11: Toxicological information

**11.1 Information on toxicological effects**

**Acute toxicity**
Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**
  - Oral  
    - LD50 >2,000 mg/kg (rat)
  - Dermal  
    - LD50 >2,000 mg/kg (rat)

- **Primary irritant effect:**
  - Skin corrosion/irritation
    Causes skin irritation.
  - Serious eye damage/irritation
    Causes serious eye irritation.

- **Respiratory or skin sensitisation**
  May cause an allergic skin reaction.

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
  - Germ cell mutagenicity
    Based on available data, the classification criteria are not met.
  - Carcinogenicity
    Based on available data, the classification criteria are not met.
  - Reproductive toxicity
    Based on available data, the classification criteria are not met.

- **Specific target organ toxicity - single exposure**
  Based on available data, the classification criteria are not met.

- **Specific target organ toxicity - repeated exposure**
  Based on available data, the classification criteria are not met.

- **Aspiration hazard**
  Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

**12.1 Toxicity**
Aquatic toxicity: No further relevant information available.

**12.2 Persistence and degradability**
No further relevant information available.

**12.3 Bioaccumulative potential**
No further relevant information available.

**12.4 Mobility in soil**
No further relevant information available.

Additional ecological information:

**General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Safety data sheet
according to 1907/2006/EC, Article 31

Trade name: 1-Ethyl-3-methylimidazolium dicyanamide 99,5%

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

12.6 Other adverse effects
No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue
HP 4 Irritant - skin irritation and eye damage
HP 13 Sensitising

Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN-Number
ADR/RID/ADN, ADN, IMDG, IATA not regulated

14.2 UN proper shipping name
ADR/RID/ADN, ADN, IMDG, IATA not regulated

14.3 Transport hazard class(es)
ADR/RID/ADN, ADN, IMDG, IATA Class not regulated

14.4 Packing group
ADR/RID/ADN, ADN, IMDG, IATA not regulated

14.5 Environmental hazards:
Not applicable.

14.6 Special precautions for user
Not applicable.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable.

UN "Model Regulation":
not regulated

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Directive 2012/18/EU
Named dangerous substances - ANNEX I Substance is not listed.
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

15.2 Chemical safety assessment:
For this product, no chemical safety assessment has been performed. A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

For research and development use only.
Department issuing SDS: Environmental Protection Service
Contact:
Mail: hse@solvionic.com

(Contd. on page 6)
Phone number: +33 (0)5.34.63.35.35

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Skin Irrit. 2: Skin corrosion/irritation - Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1B: Skin sensitisation – Category 1B

* Data compared to the previous version altered.