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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.12.2021 Version number 3 Revision: 16.12.2021

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

1.1 Product identifier

Trade name: [Mg(II)TFSI: PYR14FSI 1:9 (mol.)]: PolyDDAFSI 42:58 (wt.), 50wt% acetone

Article number: EM011

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

- Sector of Use SU24 Scientific research and development
- Product category PC21 Laboratory chemicals

Application of the substance / the mixture This product is intended for the exclusive use of Research and Development

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Solvionic SA

11 chemin des Silos

31100 TOULOUSE

FRANCE

T: +33 (0).32.26.20.20 @: contact@solvionic.com

Further information obtainable from: Department of Regulatory affairs

1.4 Emergency telephone number:

- United Kingdom: Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust, +44 20 7188 7188.
- Ireland: National Poisons Information Centre Beaumont Hospital, +353 1 809 2566 (Healthcare professionals24/7), +353 1 809 2166 (public, 8am - 10pm, 7/7)
- France ORFILA (INRS): +33 (0)1.45.42.59.59.
- Belgique, Belgie/Belgium: Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base Reine Astrid

Rue Bruyn 1 - 1120 Bruxelles/Brussel. Toutes les questions urgentes concernant une intoxication: 070 245 245 (gratuit, 24/7), si pas accessible 02 264 96 30 (tarif normal). Alle dringende vragen over vergiftigingen: 070 245 245 (gratis, 24/7), of indien onbereikbaar tel. 02 264 96 30 (normaal tarief).

- Sverige/ Sweden: GiftinformationscentralenBox 60 500: 112 begär Giftinformation ,+46 10 456 6700 (Från utlandet)
- Ελλάδα / Greece: Poisons Information Centre Children's Hospital P&A Kyriakou, +30 21 07 79 37 77.
- Italia/Italy: Centro Antiveleni di Roma CAV Policlinico "A. Gemelli", Dipartimento di Tossicologia Clinica Universita Cattolica del Sacro Cuore, +39 06 305 4343.
- España/ Spain: Servicio de Información Toxicológica Instituto Nacional de Toxicología y Ciencias Forenses, Departamento de Madrid, +34 91 562 04 20 (solo emergencias toxicológicas), Información en español (24h/365 días).
- Nederland/ Netherlands (NVIC): Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen, +31 (0)88 755 8000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Skin Irrit. 2 H315 Causes skin irritation. Eve Dam. 1 H318 Causes serious eve damage.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

2.2 Label elements

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

Hazard pictograms







GHS02

GHS05 GHS07

Signal word Danger

Hazard-determining components of labelling:

 $Magnesium (II)\ bis (trifluoromethane sulfonyl) imide$

Poly(diallyldimethylammonium) bis(fluorosulfonyl)imide

Highly flammable liquid and vapour. H225

H315 Causes skin irritation. H318 Causes serious eye damage.

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H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

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.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

- Description:

Mixture of substances listed below with nonhazardous additions.

Mixture: consisting of the following components.

- Dangerous components:				
CAS: 67-64-1	acetone; propan-2-one; propanone; 2-Oxopropane; 2-Propanone; beta-Ketopropane; Dimethyl	>40–≤60%		
EINECS: 200-662-2	ketone; Pyroacetic ether			
Index number: 606-001-00-8	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336			
CAS: 1883729-87-0	Poly(diallyldimethylammonium) bis(fluorosulfonyl)imide	>25–≤40%		
EC number: 954-493-0	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335			
CAS: 1057745-51-3	1-Butyl-1-methylpyrrolidinium bis(fluorosulfonyl)imide	>10–≤25%		
	Skin Irrit. 2, H315; Eye Irrit. 2, H319			
CAS: 133395-16-1	Magnesium(II) bis(trifluoromethanesulfonyl)imide	>2,5–≤5%		
EC number: 634-340-1	Skin Corr. 1B, H314; Eye Dam. 1, H318; STOT SE 3, H335			

⁻ Additional information: For the wording of the listed hazard phrases refer to section 16.

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. Then 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: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- . For safety reasons unsuitable extinguishing agents: Water with full jet
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

5.3 Advice for firefighters

. Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Use individual protective gear.

 $\underline{\textbf{6.2 Environmental precautions:}} \ \ \text{Do not allow to enter sewers/ surface or ground water.}$

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

. Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

. Storage

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

- Ingredients with limit values that require monitoring at the workpla	ce:
CAS: 67 64 1 acatona	

CAS: 07-04-1 acetone			
IOELV (EU)	Long-term value: 1210 mg/m³, 500 ppm		

LEP (Spain)	Long-term value: 1210 mg/m ³ , 500 ppm VLB, VLI
WEL (Great Britain)	Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm
OEL (Ireland)	Long-term value: 1210 mg/m³, 500 ppm IOELV
AG (Norway)	Long-term value: 295 mg/m³, 125 ppm E
WGW (Netherland)	Short-term value: 2420 mg/m³, 1000 ppm Long-term value: 1210 mg/m³, 500 ppm
OEL (Sweden)	Short-term value: 1200 mg/m³, 500 ppm Long-term value: 600 mg/m³, 250 ppm V

Ingredients with biological limit values:

CAS: 67-64-1 acetone

HTP (Finland)

VLB (Spain) 50 mg/l

Muestra: orina

Momento de Muestero: Final de la jornada laboral

Short-term value: 1500 mg/m³, 630 ppm Long-term value: 1200 mg/m³, 500 ppm

Indicador Biológico: Acetona

. 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 skin.

Avoid contact with the eyes and skin.

$. \ Respiratory \ protection:$

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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. Protection of hands:



Protective gloves

Neoprene gloves

To minimise the wetness in the glove due to perspiration changing of gloves during a shift is required.

Material of gloves Neoprene gloves

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

. 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:

Form: Viscous liquid
Color: Colorless to yellow
Odor: Not determined.
Odor threshold: Not determined.
- pH-value: Not determined

- Change in condition

. Melting point/freezing point:
. Initial boiling point and boiling range: 55,8–56,6 °C
- Flash point:
- Flammability (solid, gas):
. Ignition temperature:

Undetermined.

<10 °C
Not applicable.
465 °C

. Decomposition temperature: Not determined.

- Auto-ignition temperature: Product is not selfigniting.

- Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- Explosion limits:

. Lower: 2,6 Vol %
. Upper: 13 Vol %
- Vapour pressure at 20 °C: 233 hPa

- Density: Not determined.
 . Relative density Not determined.
 . Vapour density Not determined.
 . Evaporation rate Not determined.

- Solubility in / Miscibility with

. water: Not miscible or difficult to mix.

- Partition coefficient: n-octanol/water:
 - Viscosity:
 . Dynamic:
 . Kinematic:
 Not determined.
 Not determined.

- Solvent content:

. Organic solvents: 50,0 % . VOC (EC) 50,00 %

9.2 Other information No further relevant information available.

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.

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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:

CAS: 67-64-1 acetone

Oral LD50 5800 mg/kg (rat)

Dermal LD50 20000 mg/kg (rabbit)

- Primary irritant effect:
- . Skin corrosion/irritation

Causes skin irritation.

. Serious eye damage/irritation

Causes serious eye damage.

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Additional toxicological information:

- CMR effects (carcinogenity, 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

May cause respiratory irritation. May cause drowsiness or dizziness.

- 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.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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

HP3 Flammable

HP4 Irritant - skin irritation and eye damage

HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

Uncleaned packaging:

. Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number

ADR/RID/ADN, IMDG, IATA UN1993

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Trade name: [Mg(II)TFSI: PYR14FSI 1:9 (mol.)]: PolyDDAFSI 42:58 (wt.), 50wt% acetone

(Contd. of page 5) 14.2 UN proper shipping name ADR/RID/ADN UN1993 FLAMMABLE LIQUID, N.O.S. (ACETONE) FLAMMABLE LIQUID, N.O.S. (ACETONE) IMDG, IATA 14.3 Transport hazard class(es) ADR/RID/ADN, IMDG, IATA 3 Flammable liquids. Class Label 14.4 Packing group ADR/RID/ADN, IMDG, IATA 14.5 Environmental hazards: Not applicable. Warning: Flammable liquids. 14.6 Special precautions for user Hazard identification number (Kemler code): **EMS Number:** F-E,S-E В Stowage Category 14.7 Transport in bulk according to Annex II of Marpol and the **IBC Code** Not applicable Transport/Additional information: ADR/RID/ADN Limited quantities (LQ) 1L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml Transport category D/E **Tunnel restriction code IMDG** Limited quantities (LQ) 1L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml

SECTION 15: Regulatory information

$\underline{\textbf{15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture}$

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. Hazard pictograms

Maximum net quantity per outer packaging: 500 ml

UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONE), 3, II





UN "Model Regulation":



GHS02

GHS05

GHS07

Signal word Danger

Hazard-determining components of labelling:

acetone

Magnesium(II) bis(trifluoromethanesulfonyl)imide

Poly(diallyldimethylammonium) bis(fluorosulfonyl)imide

Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.H318 Causes serious eye damage.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

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Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements $50000\ t$

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex

None of the ingredients is listed.

15.2 Chemical safety assessment: For this product, no chemical safety assessment has been performed.

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.

Relevant phrases

H225 Highly flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

Department issuing SDS: Regulatory affairs department

Contact:

Email: hse@solvionic.com

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

INTIA: International An Triansport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

Constitution of the Volc: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

Nos. Vedy retssent and very modeculmative Flam. Liq. 2: Flammable liquids – Category 2 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

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