

Page 1/7

# 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: 1-Allyl-3H-Imidazolium TFSI: PMMA 60:40 (wt.),50wt% in butanone

Article number: EM001

# 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

- 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 Irrit. 2 H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life.

# 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

GHS07

# Signal word Danger

# Hazard-determining components of labelling:

Poly(methyl methacrylate)

butanone

# **Hazard statements**

H225 Highly flammable liquid and vapour.

(Contd. on page 2)

Printing date 16.12.2021 Version number 3 Revision: 16.12.2021

# Trade name: 1-Allyl-3H-Imidazolium TFSI: PMMA 60:40 (wt.),50wt% in butanone

(Contd. of page 1)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

H413 May cause long lasting harmful effects to aquatic life.

### **Precautionary statements**

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

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

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.

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:		
	1-Allyl-3-H-imidazolium bis(trifluoromethanesulfonyl)imide	>40–≤60%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 78-93-3	butanone; methyl ethyl ketone; ethyl methyl ketone; 2-Butanone; Butan-2-one; MEK	>25–≤40%
	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	
Index number: 606-002-00-3		
CAS: 9011-14-7	Poly(methyl methacrylate)	>25–≤40%
EC number: 618-466-4	Skin Sens. 1, H317; Aquatic Chronic 4, H413	

<sup>-</sup> 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:

Supply fresh air and to be sure call for a doctor.

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: 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.

# **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

(Contd. on page 3)

Printing date 16.12.2021 Version number 3 Revision: 16.12.2021

# Trade name: 1-Allyl-3H-Imidazolium TFSI: PMMA 60:40 (wt.),50wt% in butanone

(Contd. of page 2)

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).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

### 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

	tion about design of technical facilities: No further data; see item 7.			
- Ingredients with limit values that require monitoring at the workplace:				
CAS: 78-93-3 butanone				
IOELV (EU)	Short-term value: 900 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm			
LEP (Spain)	Short-term value: 900 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm VLB, VLI			
WEL (Great Britain)	Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV			
OEL (Ireland)	Short-term value: 900 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, IOELV			
AG (Norway)	Long-term value: 220 mg/m³, 75 ppm E			
WGW (Netherland)	Short-term value: 900 mg/m³, 300 ppm Long-term value: 590 mg/m³, 200 ppm			
OEL (Sweden)	Short-term value: 900 mg/m³, 300 ppm Long-term value: 150 mg/m³, 50 ppm			
HTP (Finland)	Short-term value: 300 mg/m³, 100 ppm Long-term value: 60 mg/m³, 20 ppm iho			
Ingredients with bio	ological limit values:			

# Ingredients with biological limit values:

# CAS: 78-93-3 butanone

VLB (Spain) 2 mg/l

Muestra: orina

Momento de Muestero: Final de la jornada laboral

Indicador Biológico: Metiletilcetona

BMGV (Great Britain) 70 µmol/L

Medium: urine

Sampling time: post shift

Parameter: butan-2-one

. Additional information: The lists valid during the making were used as basis.

(Contd. on page 4)

Printing date 16.12.2021 Version number 3 Revision: 16.12.2021

# Trade name: 1-Allyl-3H-Imidazolium TFSI: PMMA 60:40 (wt.),50wt% in butanone

(Contd. of page 3)

### 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:

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.

### . 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: 79–80,5 °C
- Flash point:
- Flammability (solid, gas):
. Ignition temperature:

Undetermined.
20 °C
Not applicable.
514 °C

Ignition temperature: 514 °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: 1,8 Vol %
. Upper: 11,5 Vol %
- Vapour pressure at 20 °C: 105 hPa

- Density: Not determine

- 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: Not determined.

- Viscosity:

. Dynamic: Not determined. . Kinematic: Not determined.

- Solvent content:

. **Organic solvents:** 32,0 % . **VOC** (EC) 32,00 %

**9.2 Other information** No further relevant information available.

— - UE

Printing date 16.12.2021 Version number 3 Revision: 16.12.2021

# Trade name: 1-Allyl-3H-Imidazolium TFSI: PMMA 60:40 (wt.),50wt% in butanone

(Contd. of 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:

### CAS: 78-93-3 butanone

Oral LD50 3300 mg/kg (rat)

Dermal LD50 5000 mg/kg (rabbit)

- 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.

Additional toxicological information:

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- .  $\boldsymbol{Germ\ cell\ mutagenicity}\ Based\ on\ available\ data,\ the\ classification\ criteria\ are\ not\ met.$
- . 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 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.

# 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.

Europ	European waste catalogue	
HP3	Flammable	
HP4	Irritant - skin irritation and eye damage	
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity	

(Contd. on page 6)

Printing date 16.12.2021 Version number 3 Revision: 16.12.2021

# Trade name: 1-Allyl-3H-Imidazolium TFSI: PMMA 60:40 (wt.),50wt% in butanone

(Contd. of page 5) HP13 Sensitising HP14 Ecotoxic

Uncleaned packaging:

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

SECTION 14: Transport information	
14.1 UN-Number ADR/RID/ADN, IMDG, IATA	UN1193
14.2 UN proper shipping name ADR/RID/ADN	UN1193 ETHYL METHYL KETONE (METHYL ETHYL KETO) solution
IMDG, IATA	ETHYL METHYL KETONE (METHYL ETHYL KETONE) solutio
14.3 Transport hazard class(es)	
ADR/RID/ADN, IMDG, IATA	
Class Label	3 Flammable liquids.
14.4 Packing group ADR/RID/ADN, IMDG, IATA	II
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Flammable liquids. 33 F-E,S-D B
14.7 Transport in bulk according to Annex II of Marpo	ol and the
IBC Code	Not applicable.
Transport/Additional information: ADR/RID/ADN	
Limited quantities (LQ)	IL at the
Excepted quantities (EQ)	Code: E2  Maximum net quantity per inner packaging: 30 ml  Maximum net quantity per outer packaging: 500 ml
Transport category Tunnel restriction code IMDG	2 D/E
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
UN "Model Regulation":	UN 1193 ETHYL METHYL KETONE (METHYL ETHYL KETO) SOLUTION, 3, II

# **SECTION 15: Regulatory information**

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





GHS02

GHS07

Signal word Danger Hazard-determining components of labelling:

Poly(methyl methacrylate)

butanone

**Hazard statements** 

H225 Highly flammable liquid and vapour.

(Contd. on page 7)

Printing date 16.12.2021 Revision: 16.12.2021 Version number 3

# Trade name: 1-Allyl-3H-Imidazolium TFSI: PMMA 60:40 (wt.),50wt% in butanone

(Contd. of page 6)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

H413 May cause long lasting harmful effects to aquatic life.

### Precautionary statements

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

Use explosion-proof [electrical/ventilating/lighting] equipment.

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

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.

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.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H413 May cause long lasting harmful effects to aquatic life.

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 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) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic

VPWB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2

Skin Irrit. 2: Skin corrosion/irritation — Category 2
Skin Sens. 1: Skin sensitisation — Category 1
STOT SE 3: Specific target organ toxicity (single exposure) — Category 3
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard — Category 4