Revision: 28.02.2024



# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.02.2024

Version number 2 (replaces version 1)

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

- · 1.1 Product identifier
- · Trade name: Mipa 1K-Leak-Sealer Spray
- 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Sealant
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

MIPA SE

Am Oberen Moos 1 D-84051 Essenbach Tel.: +49 8703 92 20 Fax.: +49 8703 92 21 00

e-mail: sdb-registratur@mipa-paints.com

www.mipa-paints.com

• 1.4 Emergency telephone number: International emergency number: +49(0)700 24112112 (MIP)

## SECTION 2: Hazards identification

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



flame

Aerosol 1

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



## health hazard

May cause damage to the hearing organs through prolonged or STOT RE 2 H373 repeated exposure.



Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms







GHS02 GHS07 GHS08

· Signal word Danger



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#### · Hazard-determining components of labelling:

Xvlene

Methyl ethyl ketone

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Hydrocarbons, C6, isoalkanes, < 5% n-hexane

#### · Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation. H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to the hearing organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P251 Do not pierce or burn, even after use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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

international regulations.

#### · Additional information:

Buildup of explosive mixtures possible without sufficient ventilation.

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

# SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37	dimethyl ether ♠ Flam. Gas 1A, H220; Press. Gas (Liq.), H280	25-50%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	Methyl ethyl ketone ♦ Flam. Liq. 2, H225; ♦ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	10-25%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	Xylene  ♠ Flam. Liq. 3, H226; ♦ STOT RE 2, H373; Asp. Tox. 1, H304; ♠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≥10-<15%
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CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35	Ethylbenzene  ♠ Flam. Liq. 2, H225; ♦ STOT RE 2, H373; Asp. Tox. 1, H304; ♠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	2.5-<10%
EC number: 921-024-6 Reg.nr.: 01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane  Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	2.5-<10%
EC number: 931-254-9 Reg.nr.: 01-2119484651-34	Hydrocarbons, C6, isoalkanes, < 5% n-hexane  ♠ Flam. Liq. 2, H225; ♠ Asp. Tox. 1, H304;  ♠ Aquatic Chronic 2, H411; ♠ Skin Irrit. 2, H315;  STOT SE 3, H336	≥0.25-<2.5%
EC number: 927-510-4 Reg.nr.: 01-2119475515-33	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics  Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	<i>≥</i> 0.25-<2.5%
CAS: 64742-95-6 EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Hydrocarbons, C9, aromatics  ♠ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♠ Aquatic Chronic 2, H411; ♠ STOT SE 3, H335-H336, EUH066	1-<2.5%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46	Ethyl acetate <b>♦</b> Flam. Liq. 2, H225; <b>♦</b> Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	<2.5%
EC number: 920-750-0 Reg.nr.: 01-2119473851-33	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336, EUH066	≥0.25-<2.5%

<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; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Seek immediate medical advice.
- · 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.

• 5.2 Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.

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#### · 5.3 Advice for firefighters

#### · Protective equipment:

Mouth respiratory protective device.

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

#### SECTION 6: Accidental release measures

#### · 6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

#### · 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.

Do not allow to enter sewers/ surface or ground water.

#### 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 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

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

#### · Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Keep respiratory protective device available.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

## · 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

#### Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurised containers.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: Keep container tightly sealed.
- · Storage class: 2 B
- · 7.3 Specific end use(s) No further relevant information available.

## SECTION 8: Exposure controls/personal protection

## · 8.1 Control parameters

#### · Ingredients with limit values that require monitoring at the workplace:

#### 115-10-6 dimethyl ether

WEL Short-term value: 958 mg/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm

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70.00		ontd. of pag
	-3 Methyl ethyl ketone	
	Short-term value: 899 mg/m³, 300 ppm	
	Long-term value: 600 mg/m³, 200 ppm	
	Sk, BMGV	
1330-	20-7 Xylene	
WEL	Short-term value: 441 mg/m³, 100 ppm	
	Long-term value: 220 mg/m³, 50 ppm	
	Sk; BMGV	
100-4	1-4 Ethylbenzene	
WEL	Short-term value: 552 mg/m³, 125 ppm	
	Long-term value: 441 mg/m³, 100 ppm	
	Sk	
141-7	8-6 Ethyl acetate	
WEL	Short-term value: 1468 mg/m³, 400 ppm	
	Long-term value: 734 mg/m³, 200 ppm	
Ingre	dients with biological limit values:	
78-93	-3 Methyl ethyl ketone	
BMG\	V   70 μmol/L	
	Medium: urine	
	Sampling time: post shift	
	Parameter: butan-2-one	
1330-	20-7 Xylene	
	/ 650 mmol/mol creatinine	
	Medium: urine	
	Sampling time: post shift	
	Parameter: methyl hippuric acid	

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as 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.

Store protective clothing separately.

Avoid contact with the eyes.

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.

## Hand protection

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves (EN 374)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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#### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Breakthrough time of glove material

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

· Eye/face protection

Safety glasses



Tightly sealed goggles

## SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state Aerosol

· Colour: According to product specification

Odour: Characteristic
 Odour threshold: Not determined.
 Melting point/freezing point: Undetermined.

Boiling point or initial boiling point and

boiling range -24.9 °C (115-10-6 dimethyl ether)

· Flammability Not applicable.

· Lower and upper explosion limit

 • Lower:
 1.1 Vol % (1330-20-7 Xylene)

 • Upper:
 18.6 Vol % (115-10-6 dimethyl ether)

-42 °C (DIN EN ISO 1523:2002, 115-10-6

dimethyl ether)

· **Auto-ignition temperature:** 235 °C (DIN 51794, 115-10-6 dimethyl ether)

Decomposition temperature: Not determined.pH Not determined.

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

· Solubility

• water: Not miscible or difficult to mix.

· Partition coefficient n-octanol/water (log

value) Not determined.

· Vapour pressure at 20 °C: 5,200 hPa (115-10-6 dimethyl ether)

· Density and/or relative density

Density at 20 °C: 0.796 g/cm³ (DIN EN ISO 2811-1)

Relative density
Not determined.
Vapour density
Not determined.

· 9.2 Other information

· Appearance:

Form: Aerosol

· Important information on protection of health

and environment, and on safety.

Ignition temperature: Product is not selfigniting.

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Explosive properties: In use, may form flammable/explosive vapour-air

mixture.

· Solvent content:

• **VOC (EC)** 80.23 % • **Solids content (weight-%):** 19.8 %

· Change in condition

· Evaporation rate Not applicable.

· Information with regard to physical hazard

classes Explosiv

Explosives VoidFlammable gases Void

· Aerosols Extremely flammable aerosol. Pressurised

container: May burst if heated.

· Oxidising gases Void · Gases under pressure Void · Flammable liquids Void · Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures Void

· Substances and mixtures, which emit

flammable gases in contact with water

Oxidising liquids
Oxidising solids
Organic peroxides
Corrosive to metals
Desensitised explosives
Void

## 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: No further relevant information available.
- 10.6 Hazardous decomposition products: Carbon monoxide

## SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.
- · STOT-single exposure May cause drowsiness or dizziness.
- STOT-repeated exposure
- May cause damage to the hearing organs through prolonged or repeated exposure.
- · Aspiration hazard May be fatal if swallowed and enters airways.

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· 11.2 Information on other hazards

· Endocrine disrupting properties

78-93-3 Methyl ethyl ketone

List II

# **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.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

- · 12.7 Other adverse effects
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation): hazardous for water

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

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

## 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.

- · Uncleaned packaging:
- · Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

## SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR, IMDG, IATA UN1950

· 14.2 UN proper shipping name

· ADR UN1950 AEROSOLS

· **IMDG** AEROSOLS

· IATA AEROSOLS, flammable

· 14.3 Transport hazard class(es)

· ADR



· Class 2 5F Gases.

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Label	2.1
IMDG, IATA	
Class	2.1 Gases.
Label	2.1
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Gases.
Hazard identification number (Kemler co	
EMS Number: Stowage Code	F-D,S-U SW1 Protected from sources of heat.
Segregation Code	SW22 For AEROSOLS with a maximum capace of 1 litre: Category A. For AEROSOLS with capacity above 1 litre: Category B. For WAST AEROSOLS: Category C, Clear of living quarters SG69 For AEROSOLS with a maximum capac
	of 1 litre: Segregation as for class 9. Stow "separated from class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision class 2.
14.7 Maritime transport in bulk accordin IMO instruments	<b>g to</b> Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Transport category Tunnel restriction code	1L 2 D
IMDG Limited quantities (LQ)	1L
Lillinea quantities (LQ)	<i>'</i> -

# **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Poisons Act
- · Regulated explosives precursors

None of the ingredients is listed.

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,	ucou	poisons	

None of the ingredients is listed.

#### · Reportable explosives precursors

None of the ingredients is listed.

#### · Reportable poisons

None of the ingredients is listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P3a FLAMMABLE AEROSOLS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- National regulations:
- · Additional classification according to Decree on Hazardous Materials, Annex II:

Class	Share in %
NK	50-100

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### SECTION 16: Other information

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.

#### · Relevant phrases

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

## Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

#### · Abbreviations and acronyms:

ADR: Accord relatif au transport international 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative Flam. Gas 1A: Flammable gases – Category 1A

Aerosol 1: Aerosols - Category 1

Press. Gas (Liq.): Gases under pressure - Liquefied gas

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Flam. Liq. 2: Flammable liquids - Category 2

Flam. Liq. 3: Flammable liquids - Category 3

Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

\* Data compared to the previous version altered.