

## 1 Identification of the substance or mixture and of the supplier

· **Product identifier**

· **Trade name:** *Mipa 2K-HS-Löser-Spray*

· **Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

· **Application of the substance / the mixture** Thinner, Diluent

· **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](mailto:sdb-registratur@mipa-paints.com)

[www.mipa-paints.com](http://www.mipa-paints.com)

**Importer in New Zealand:**

RJP Performance Coatings

33 Ha Crescent, Wiri

Auckland 2104

Phone: 09 25000 91

Email: [sales@mipa.nz](mailto:sales@mipa.nz)

Web: [www.mipa.nz](http://www.mipa.nz)

**24HR Emergency Assistance in New Zealand:**

National Poison Control Centre: 0800 POISON [764 766]

· **Emergency telephone number:** International emergency number: +49(0)700 24112112 (MIP)

## 2 Hazards identification

· **Classification of the substance or mixture**



flame

Aerosol 1

H222-H229 Extremely flammable aerosol. Pressurized container: may burst if heated.



health hazard

Repr. 2

H361

Suspected of damaging fertility or the unborn child. Route of exposure: Oral.

STOT RE 2

H373

May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1

H304

May be fatal if swallowed and enters airways.



corrosion

Eye Dam. 1

H318

Causes serious eye damage.



Skin Irrit. 2

H315

Causes skin irritation.

STOT SE 3

H336

May cause drowsiness or dizziness.

Aquatic Chronic 3

H412

Harmful to aquatic life with long lasting effects.

· **Label elements**

· **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

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**Trade name: Mipa 2K-HS-Löser-Spray**

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**Hazard pictograms**



GHS02 GHS05 GHS07 GHS08

**Signal word Danger**

**Hazard-determining components of labelling:**

Cyclohexanone

acetone

Xylene

4-hydroxy-4-methylpentan-2-one

**Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurized container: may burst if heated.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H361 Suspected of damaging fertility or the unborn child. Route of exposure: Oral.

H336 May cause drowsiness or dizziness.

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

H304 May be fatal if swallowed and enters airways.

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.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P321 Specific treatment (see on this label).

P331 Do NOT induce vomiting.

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

P362+P364 Take off contaminated clothing and wash it before reuse.

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.

**Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**3 Composition/Information on ingredients**

**Chemical characterisation: Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

115-10-6	dimethyl ether	25-50%
	⚠ Flam. Gas 1A, H220; ⚠ Press. Gas L, H280	
67-64-1	acetone	25-50%
	⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	
141-78-6	Ethyl acetate	10-25%
	⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	
1330-20-7	Xylene	5-<10%
	⚠ 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	

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	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336	2.5-<10%
108-94-1	Cyclohexanone ⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335	≥3-<10%
100-41-4	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%
123-42-2	4-hydroxy-4-methylpentan-2-one ⚠ Flam. Liq. 3, H226; ⚠ Repr. 2, H361; ⚠ Eye Irrit. 2, H319; STOT SE 3, H335	<2.5%

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

#### 4 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. Then consult a doctor.
- **After swallowing:** Seek immediate medical advice.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

#### 5 Fire fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.
- **Protective equipment:**  
Mouth respiratory protective device.  
Wear self-contained respiratory protective device.  
Do not inhale explosion gases or combustion gases.

#### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.
- **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.
- **Methods and material for containment and cleaning up:**  
Use neutralising agent.  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.

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· **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.

## 7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· **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.

· **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:**

Do not seal receptacle gas tight.

Keep container tightly sealed.

· **Storage class:** 2 B

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

## 8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see section 7.

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

**115-10-6 dimethyl ether**

WES (New Zealand) Short-term value: 958 mg/m<sup>3</sup>, 500 ppm

Long-term value: 766 mg/m<sup>3</sup>, 400 ppm

IOELV (EU)

Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm

**67-64-1 acetone**

WES (New Zealand) Short-term value: 2375 mg/m<sup>3</sup>, 1000 ppm

Long-term value: 1185 mg/m<sup>3</sup>, 500 ppm  
bio

IOELV (EU)

Long-term value: 1210 mg/m<sup>3</sup>, 500 ppm

**141-78-6 Ethyl acetate**

WES (New Zealand) Long-term value: 720 mg/m<sup>3</sup>, 200 ppm

IOELV (EU)

Short-term value: 1468 mg/m<sup>3</sup>, 400 ppm  
Long-term value: 734 mg/m<sup>3</sup>, 200 ppm

**1330-20-7 Xylene**

WES (New Zealand) Long-term value: 217 mg/m<sup>3</sup>, 50 ppm  
oto

IOELV (EU)

Short-term value: 442 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 221 mg/m<sup>3</sup>, 50 ppm  
Skin

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**108-94-1 Cyclohexanone**

WES (New Zealand)	Long-term value: 100 mg/m <sup>3</sup> , 25 ppm skin
IOELV (EU)	Short-term value: 81.6 mg/m <sup>3</sup> , 20 ppm Long-term value: 40.8 mg/m <sup>3</sup> , 10 ppm Skin

**100-41-4 Ethylbenzene**

WES (New Zealand)	Short-term value: 176 mg/m <sup>3</sup> , 40 ppm Long-term value: 88 mg/m <sup>3</sup> , 20 ppm skin, oto
IOELV (EU)	Short-term value: 884 mg/m <sup>3</sup> , 200 ppm Long-term value: 442 mg/m <sup>3</sup> , 100 ppm Skin

**123-42-2 4-hydroxy-4-methylpentan-2-one**

WES (New Zealand)	Long-term value: 238 mg/m <sup>3</sup> , 50 ppm
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· **Additional information:** The lists valid during the making were used as basis.

· **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.

· **Protection of hands:**

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



Protective gloves (EN 374)

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

· **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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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- **Eye protection:**  
Safety glasses



Tightly sealed goggles

## 9 Physical and chemical properties

- **General Information**
- **Appearance:**
- **Form:** Aerosol
- **Colour:** Colourless
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
- **Melting point/freezing point:** Undetermined.
- **Initial boiling point and boiling range:** -24.9 °C
- **Flash point:** <1 °C (DIN EN ISO 1523:2002)
- **Flammability (solid, gas):** Not applicable.
- **Auto-ignition temperature:** 235 °C (DIN 51794)
- **Decomposition temperature:** Not determined.
- **Ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- **Explosion limits:**
- **Lower:** 2.1 Vol %
- **Upper:** 18.6 Vol %
- **Vapour pressure at 20 °C:** 5,200 hPa
- **Density at 20 °C:** 0.766 g/cm<sup>3</sup> (DIN EN ISO 2811-1)
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not applicable.
- **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:**
- **VOC (EC)** 99.16 %
- **Solids content (weight-%):** 0.8 %
- **Other information** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.

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**Trade name: Mipa 2K-HS-Löser-Spray**

· **Hazardous decomposition products:** Carbon monoxide

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## 11 Toxicological information

- **Information on toxicological effects**
- **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 damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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** Suspected of damaging fertility or the unborn child. Route of exposure: Oral.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **STOT-repeated exposure** May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** May be fatal if swallowed and enters airways.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological 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.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.  
Danger to drinking water if even small quantities leak into the ground.  
Harmful to aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **UN-Number**
  - **NZS, IMDG, IATA**
- UN1950

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**Trade name: Mipa 2K-HS-Löser-Spray**

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· **UN proper shipping name**

· **NZS**

· **IMDG**

· **IATA**

UN1950 AEROSOLS

AEROSOLS

AEROSOLS, flammable

· **Transport hazard class(es)**

· **NZS**



· **Class**

2 5F Gases.

· **Label**

2.1

· **IMDG, IATA**



· **Class**

2.1 Gases.

· **Label**

2.1

· **Packing group**

· **NZS, IMDG, IATA**

Void

· **Environmental hazards:**

· **Marine pollutant:**

No

· **Special precautions for user**

Warning: Gases.

· **Hazard identification number (Kemler code): -**

· **EMS Number:**

F-D, S-U

· **Stowage Code**

SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

· **Segregation Code**

SG69 For AEROSOLS with a maximum capacity 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 of class 2.

For WASTE AEROSOLS:

Segregation as for the appropriate subdivision of class 2.

· **Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **NZS**

· **Limited quantities (LQ)**

1L

· **Transport category**

2

· **Tunnel restriction code**

D

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**Trade name: Mipa 2K-HS-Löser-Spray**

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· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>UN "Model Regulation":</b>	UN 1950 AEROSOLS, 2.1

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

### · HSNO Approval numbers

115-10-6	dimethyl ether	HSR000995
67-64-1	acetone	HSR001070
141-78-6	Ethyl acetate	HSR001041
1330-20-7	Xylene	HSR000983
108-94-1	Cyclohexanone	HSR001112
100-41-4	Ethylbenzene	HSR001151
123-42-2	4-hydroxy-4-methylpentan-2-one	HSR001120

### · GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

### · Hazard pictograms



GHS02 GHS05 GHS07 GHS08

### **NEW ZEALAND:**

HSR002515 Aerosols (Flammable) Group Standard 2020

- **Signal word** Danger

### · Hazard-determining components of labelling:

Cyclohexanone  
acetone  
Xylene  
4-hydroxy-4-methylpentan-2-one

### · Hazard statements

H222-H229 Extremely flammable aerosol. Pressurized container: may burst if heated.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H361 Suspected of damaging fertility or the unborn child. Route of exposure: Oral.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H304 May be fatal if swallowed and enters airways.  
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.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P321 Specific treatment (see on this label).  
P331 Do NOT induce vomiting.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P362+P364 Take off contaminated clothing and wash it before reuse.

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NZ

**Trade name: Mipa 2K-HS-Löser-Spray**

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.

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- **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

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**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.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H361 Suspected of damaging fertility or the unborn child.  
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.

· **Contact:**

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
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  
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 L: Gases under pressure – Liquefied gas  
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

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## Safety Data Sheet

in accordance with HSNO

Printing date 28.09.2023

Version number 21

Revision: 28.09.2023

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Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Repr. 2: Reproductive toxicity – 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.**

NZ