Safety Data Sheet
in accordance with HSNO

Printing date 16.09.2024 | Version number 24 | Revision: 16.09.2024

1 Identification of the substance or mixture and of the supplier

· **Product identifier**

· **Trade name: Miparox Anti-Rost-Spray**
· **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
· **Application of the substance / the mixture** Protective coating

· **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

Importer in New Zealand:
RJP Performance Coatings
33 Ha Crescent, Wiri, Auckland 2104
Phone: 09 25000 90
Email: sales@mipa.nz
Web: 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

Aerosols Category 1	H222-H229	Extremely flammable aerosol. Pressurized container: may burst if heated.

health hazard

Specific target organ toxicity - repeated exposure Category 2	H373	May cause damage to the hearing organs through prolonged or repeated exposure.

Eye irritation Category 2	H319	Causes serious eye irritation.
Skin sensitisation Category 1	H317	May cause an allergic skin reaction.
Specific target organ toxicity - single exposure Category 3	H336	May cause drowsiness or dizziness.

· **Label elements**
· **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
· **Hazard pictograms**

GHS02 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**
Acetone

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Bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight 700-1100)
Xylene
Propan-2-ol

· **Hazard statements**
H222-H229 Extremely flammable aerosol. Pressurized container: may burst if heated.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H373 May cause damage to the hearing organs through prolonged or repeated exposure.

· **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.

· **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 Flammable gases Category 1A, H220; Gases under pressure – Liquefied gas, H280	25-50%
67-64-1	Acetone Flammable liquids Category 2, H225; Eye irritation Category 2, H319; Specific target organ toxicity - single exposure Category 3, H336	25-50%
67-63-0	Propan-2-ol Flammable liquids Category 2, H225; Eye irritation Category 2, H319; Specific target organ toxicity - single exposure Category 3, H336	2.5-<10%
78-93-3	Methyl ethyl ketone Flammable liquids Category 2, H225; Eye irritation Category 2, H319; Specific target organ toxicity - single exposure Category 3, H336	2.5-<10%
107-98-2	1-methoxy-2-propanol Flammable liquids Category 3, H226; Specific target organ toxicity - single exposure Category 3, H336	2.5-<10%
1330-20-7	Xylene Flammable liquids Category 3, H226; Specific target organ toxicity - repeated exposure Category 2, H373; Aspiration hazard Category 1, H304; Acute dermal toxicity Category 4, H312; Acute inhalation toxicity Category 4, H332; Skin irritation Category 2, H315; Eye irritation Category 2, H319	2.5-<5%

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108-65-6	2-Methoxy-1-methylethyl acetate Flammable liquids Category 3, H226; Specific target organ toxicity - single exposure Category 3, H336	<2.5%
123-86-4	n-Butyl acetate Flammable liquids Category 3, H226; Specific target organ toxicity - single exposure Category 3, H336	1-<2.5%
25068-38-6	Bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight 700-1100) Skin irritation Category 2, H315; Eye irritation Category 2, H319; Skin sensitisation Category 1, H317	≥1-<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 and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· **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:** If symptoms persist consult doctor.
· **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:**
CO2, 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 to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

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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.
· **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:** 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/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm
IOELV (EU)	Long-term value: 1920 mg/m³, 1000 ppm
67-64-1 Acetone	
WES (New Zealand)	Short-term value: 2375 mg/m³, 1000 ppm Long-term value: 1185 mg/m³, 500 ppm bio
IOELV (EU)	Long-term value: 1210 mg/m³, 500 ppm
67-63-0 Propan-2-ol	
WES (New Zealand)	Short-term value: 1230 mg/m³, 500 ppm Long-term value: 983 mg/m³, 400 ppm
78-93-3 Methyl ethyl ketone	
WES (New Zealand)	Short-term value: 890 mg/m³, 300 ppm Long-term value: 445 mg/m³, 150 ppm bio
IOELV (EU)	Short-term value: 900 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm
107-98-2 1-methoxy-2-propanol	
WES (New Zealand)	Short-term value: 553 mg/m³, 150 ppm Long-term value: 369 mg/m³, 100 ppm
IOELV (EU)	Short-term value: 568 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm Skin

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1330-20-7 Xylene	
WES (New Zealand)	Long-term value: 217 mg/m³, 50 ppm oto, bio
IOELV (EU)	Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm Skin
108-65-6 2-Methoxy-1-methylethyl acetate	
IOELV (EU)	Short-term value: 550 mg/m³, 100 ppm Long-term value: 275 mg/m³, 50 ppm Skin
123-86-4 n-Butyl acetate	
WES (New Zealand)	Short-term value: 950 mg/m³, 200 ppm Long-term value: 713 mg/m³, 150 ppm
IOELV (EU)	Short-term value: 723 mg/m³, 150 ppm Long-term value: 241 mg/m³, 50 ppm

· **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:**
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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:**
Safety glasses

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Tightly sealed goggles

9 Physical and chemical properties

· **General Information**	
· **Appearance:**	
· **Form:**	Aerosol
· **Colour:**	According to product specification
· **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:**	<0 °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:**	In use, may form flammable/explosive vapour-air mixture.
· **Explosion limits:**	
· **Lower:**	2.6 Vol %
· **Upper:**	18.6 Vol %
· **Vapour pressure at 20 °C:**	5,200 hPa
· **Density at 20 °C:**	0.754 g/cm³ (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)**	93.47 %
· **Solids content (weight-%):**	3.7 %
· **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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· **Hazardous decomposition products:** Carbon monoxide

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity** Based on available data, the classification criteria are not met.
· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation** Causes serious eye irritation.
· **Respiratory or skin sensitisation** May cause an allergic skin reaction.
· **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.
· **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** Based on available data, the classification criteria are not met.

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.
· **Additional ecological information:**
· **General notes:**
Water hazard class 1 (German Regulation) : slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **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
· **UN proper shipping name**	
· **NZS**	UN1950 AEROSOLS
· **IMDG**	AEROSOLS

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· **IATA**	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
· **IMDG**	
· **Limited quantities (LQ)**	1L

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· **UN "Model Regulation":** 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
67-63-0	Propan-2-ol	HSR001180
78-93-3	Methyl ethyl ketone	HSR001190
107-98-2	1-methoxy-2-propanol	HSR001187
1330-20-7	Xylene	HSR000983
123-86-4	n-Butyl acetate	HSR001091

· **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
· **Hazard pictograms**

GHS02 GHS07 GHS08

NEW ZEALAND:
HSR002515 Aerosols (Flammable) Group Standard 2020

· **Signal word** Danger

· **Hazard-determining components of labelling:**
Acetone
Bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight 700-1100)
Xylene
Propan-2-ol
· **Hazard statements**
H222-H229 Extremely flammable aerosol. Pressurized container: may burst if heated.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H373 May cause damage to the hearing organs through prolonged or repeated exposure.
· **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.

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Seveso category** P3a FLAMMABLE AEROSOLS

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· **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.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
· **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
Flammable gases Category 1A: Flammable gases – Category 1A
Aerosols Category 1: Aerosols – Category 1
Gases under pressure – Liquefied gas: Gases under pressure – Liquefied gas
Flammable liquids Category 2: Flammable liquids – Category 2
Flammable liquids Category 3: Flammable liquids – Category 3
Acute dermal toxicity Category 4: Acute toxicity – Category 4
Skin irritation Category 2: Skin corrosion/irritation – Category 2
Eye irritation Category 2: Serious eye damage/eye irritation – Category 2
Skin sensitisation Category 1: Skin sensitisation – Category 1
Specific target organ toxicity - single exposure Category 3: Specific target organ toxicity (single exposure) – Category 3
Specific target organ toxicity - repeated exposure Category 2: Specific target organ toxicity (repeated exposure) – Category 2
Aspiration hazard Category 1: Aspiration hazard – Category 1