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Safety Data Sheet

acc. to OSHA HCS

Reviewed on 08/04/2023 Printing date 08/04/2023

1 Identification

- · Product identifier
- · Trade name: Mipa Protector
- · Application of the substance / the mixture Paint
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

MIPA SE

Am Oberen Moos 1 D-84051 Essenbach Tel.: +49(0)8703-922-0 Fax.: +49(0)8703-922-100

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

www.mipa-paints.com

Emergency telephone number:

International: 011 49(0)700 24112112 (MIP)

US: +1 872 5888271 (MIP)

US Emergency Telephone Number (for transportation incidents only): 1-800-535-5053 (Infotrac)

2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flammable Liquids 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Specific Target Organ Toxicity - Repeated H373 May cause damage to organs through Exposure 2 prolonged or repeated exposure.



Eve Irritation 2A H319 Causes serious eye irritation. Sensitization - Skin 1 H317 May cause an allergic skin reaction. Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms







GHS02 GHS07 GHS08

- · Signal word Danger
- · Hazard-determining components of labeling:

n-Butyl acetate *Xylene* acetone

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2-Methoxy-1-methylethyl acetate

· Hazard statements

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

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

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin

with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact

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

- · Classification system:
- NFPA ratings (scale 0 4)



Health = 2 Fire = 3 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH 2
FIRE 3
REACTIVITY 0

Health = 2 Fire = 3

Reactivity = 0

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

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description**: Mixture of the substances listed below with nonhazardous additions.

_	components:	
123-86-4	n-Butyl acetate	≤20%
67-64-1	acetone	≥10-<15%
108-65-6	2-Methoxy-1-methylethyl acetate	2.5-<10%
	Hydrocarbons, C9, aromatics	2.5-<5%
1330-20-7		1-<2.5%
26761-45-5	2,3-Epoxypropyl neodecanoate	≥0.1-<1%

4 First-aid measures

- · 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 rinse with water.

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· After eve 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:
- \cdot 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

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

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:

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

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.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

123-86-4	n-Butyl acetate	5 ppm
67-64-1	acetone	200 ppm
108-65-6	2-Methoxy-1-methylethyl acetate	50 ppm
7631-86-9	Silicon dioxide, chemically prepared	18 mg/m³
1330-20-7	Xylene	130 ppm
7727-43-7	Barium sulfate, natural	15 mg/m³
112945-52-5	Silicon dioxide	18 mg/m³
100-41-4	Ethylbenzene	33 ppm
1309-37-1	Diiron trioxide	15 mg/m³
1333-86-4	Carbon black	9 mg/m³
14808-60-7	Quartz (SiO2)	0.075 mg/m
9002-88-4	Polyethylene low density	16 mg/m³
112-07-2	2-Butoxyethyl acetate	15 ppm
75-65-0	2-methylpropan-2-ol	150 ppm



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646.06.0	1.2 diovolono	(Contd. of page 3
	1,3-dioxolane	60 ppm
	Isobutanol	150 ppm
	Dipropylene glycol monomethyl ether	150 ppm
	dibutyltin dilaurate	1.1 mg/m³
	2-Hydroxyethyl methacrylate	1.9 mg/m³
	1-methoxy-2-propanol	100 ppm
	Dodecamethylcyclohexasiloxane	150 mg/m³
556-67-2	octamethylcyclotetrasiloxane	30 ppm
· PAC-2:		
	n-Butyl acetate	200 ppm
	acetone	3200* ppm
108-65-6	2-Methoxy-1-methylethyl acetate	1,000 ppm
7631-86-9	Silicon dioxide, chemically prepared	740 mg/m³
1330-20-7	Xylene	920* ppm
7727-43-7	Barium sulfate, natural	170 mg/m³
112945-52-5	Silicon dioxide	100 mg/m³
100-41-4	Ethylbenzene	1100* ppm
	Diiron trioxide	360 mg/m³
1333-86-4	Carbon black	99 mg/m³
14808-60-7	Quartz (SiO2)	33 mg/m³
	Polyethylene low density	170 mg/m³
	2-Butoxyethyl acetate	35 ppm
	2-methylpropan-2-ol	1,300 ppm
	1,3-dioxolane	190 ppm
	Isobutanol	1,300 ppm
	Dipropylene glycol monomethyl ether	1700* ppm
	dibutyltin dilaurate	8 mg/m ³
	2-Hydroxyethyl methacrylate	21 mg/m³
	1-methoxy-2-propanol	160 ppm
	Dodecamethylcyclohexasiloxane	1,700 mg/m ³
	octamethylcyclotetrasiloxane	68 ppm
· PAC-3:	octametryicyclotetrasiloxarie	ου ρριτι
	n-Butyl acetate	3000* ppm
	acetone	5700* ppm
	2-Methoxy-1-methylethyl acetate	5000* ppm
	Silicon dioxide, chemically prepared	4,500 mg/m ³
1330-20-7		2500* ppm
		990 mg/m ³
	Barium sulfate, natural	
	Silicon dioxide	630 mg/m³
	Ethylbenzene	1800* ppm
	Diiron trioxide	2,200 mg/m ³
	Carbon black	590 mg/m³
	Quartz (SiO2)	200 mg/m³
	Polyethylene low density	1,000 mg/m ³
112-07-2	2-Butoxyethyl acetate	210 ppm



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		(Contd. of page 4)
75-65-0	2-methylpropan-2-ol	8000* ppm
646-06-0	1,3-dioxolane	1,000 ppm
78-83-1	Isobutanol	8000* ppm
34590-94-8	Dipropylene glycol monomethyl ether	9900** ppm
77-58-7	dibutyltin dilaurate	48 mg/m³
868-77-9	2-Hydroxyethyl methacrylate	1,000 mg/m³
107-98-2	1-methoxy-2-propanol	660 ppm
540-97-6	Dodecamethylcyclohexasiloxane	9,900 mg/m³
556-67-2	octamethylcyclotetrasiloxane	130 ppm

7 Handling and storage

- Handling:
- · Precautions for safe handling

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- · 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: Store away from foodstuffs.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- · Storage class: 3
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

PEL	Long-term value: 710 mg/m³, 150 ppm	
REL	Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm	
TLV	Short-term value: 150 ppm Long-term value: 50 ppm	
67-64	-1 acetone	
PEL	Long-term value: 2400 mg/m³, 1000 ppm	
		(Contd. on pa



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	(Contd. of page 5
REL	Long-term value: 590 mg/m³, 250 ppm
TLV	Short-term value: 500 ppm Long-term value: 250 ppm A4, BEI
108-6	65-6 2-Methoxy-1-methylethyl acetate
WEE	L Long-term value: 50 ppm
1330-	-20-7 Xylene
PEL	Long-term value: 435 mg/m³, 100 ppm
REL	Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm
TLV	Long-term value: 20 ppm BEI, A4
Ingre	edients with biological limit values:
67-64	1-1 acetone
BEI 2	25 mg/L
1	Medium: urine
7	Time: end of shift
F	Parameter: Acetone (nonspecific)
1330-	-20-7 Xylene
BEI 1	1.5 g/g creatinine

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls

Medium: urine Time: end of shift

- · Personal protective equipment:
- · General protective and hygienic measures:

Parameter: Methylhippuric acids

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.

· Breathing equipment:

Filter A



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:

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



Protective gloves

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

Material of gloves

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.7 mm

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 (Contd. on page 7)



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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

For the mixture of chemicals the penetration time has to be at least 30 minutes (Permeation according to EN 374 Part 3: Level 2).

· Eye protection:



Tightly sealed goggles

9 Physical	l and chemica	il properties

 Information on basic physical and chemical properties 	· Information	on basic p	physical	and che	emical pro	operties
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· General Information

· Appearance:

Form: Fluid

Color: According to product specification

· Odor: Characteristic · Odor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 56 °C (132.8 °F)

• Flash point: -17 °C (1.4 °F) (DIN EN ISO 1523:2002)

· Flammability (solid, gaseous): Highly flammable.

• **Auto igniting:** 315 °C (599 °F) (DIN 51794)

· Decomposition temperature: Not determined.

· **Ignition temperature:** Product is not selfigniting.

• Danger of explosion: Product is not explosive. However, formation of explosive

Not determined.

air/vapor mixtures are possible.

· Explosion limits:

· Evaporation rate

Lower: 1.2 Vol % **Upper:** 13 Vol %

• Vapor pressure at 20 °C (68 °F): 233 hPa (174.8 mm Hg) • Vapor pressure at 50 °C (122 °F): 800 hPa (600 mm Hg)

Vapor pressure at 60 O (122 17): 000 m a (000 mm 1/g)

Density at 20 °C (68 °F):
 Relative density
 Vapor density
 1.159 g/cm³ (9.672 lbs/gal) (DIN EN ISO 2811-1)
 Not determined.
 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 at 20 °C (68 °F):** >60 s (ISO 6 mm)

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(Contd. of page 7) Solvent content: **VOC** content: 32.30 % 445 g/l / 3.7 lb/gal Solids content (weight-%): 56.9 % · Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- 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.
- · Hazardous decomposition products: Carbon monoxide

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

Carcinogenic categories

· IARC (Inter	national Agency for Research on Cancer)	
7631-86-9	Silicon dioxide, chemically prepared	3
14807-96-6	Talc	3
1330-20-7	Xylene	3
100-41-4	Ethylbenzene	2B
1309-37-1	Diiron trioxide	3
1333-86-4	Carbon black	2B
14808-60-7	Quartz (SiO2)	1
9002-88-4	Polyethylene low density	3
· NTP (Natio	nal Toxicology Program)	
14808-60-7	Quartz (SiO2)	K
· OSHA-Ca (Occupational Safety & Health Administration)	
Polycarbona	te-polyester-polyol	



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12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior 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 (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.

- · 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 of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number

· DOT, ADR, IMDG, IATA UN1263

· UN proper shipping name

Paint Paint

· **ADR** UN1263 PAINT

· **IMDG, IATA** PAINT

- · Transport hazard class(es)
- ·DOT



· Class 3 Flammable liquids

· Label

· ADR



· Class 3 (F1) Flammable liquids

(Contd. on page 10)



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(Contd. of page 9) ·Label 3 · IMDG, IATA 3 Flammable liquids · Class ·Label 3 · Packing group DOT, ADR, IMDG, IATA 11 · Environmental hazards: Not applicable. · Special precautions for user Warning: Flammable liquids · Hazard identification number (Kemler code): 33 · EMS Number: F-E,S-E · Stowage Category R · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: · ADR · Limited quantities (LQ) 5L · IMDG · Limited quantities (LQ) 5L · UN "Model Regulation": UN 1263 PAINT, 3, II

15 Regulatory information

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

· Section 355 (extrem	ely hazardous substances):
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None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):

1330-20-7 Xylene

· Hazardous Air Pollutants

1330-20-7 Xylene

- · Proposition 65
- · Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

67-64-1 acetone

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	(Cor	ntd. of page 10)
1330-20-7 Xylene		1
· TLV (Threshold Limit Value)		
67-64-1 acetone	A4	≥10-<15%
1330-20-7 Xylene	A4	1-<2.5%
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
1333-86-4 Carbon black		
14808-60-7 Quartz (SiO2)		

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms







GHS02 GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labeling:

n-Butyl acetate Xylene acetone

2-Methoxy-1-methylethyl acetate

· Hazard statements

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

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

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin

with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact

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

· National regulations:

· Additional classification according to Decree on Hazardous Materials:

Class	Share in %	
NK	25-50	

· 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.

· Contact:

· Date of preparation / last revision 08/04/2023

· 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

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DOT: US Department of Transportation

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)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, ÉU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health

TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit

Flammable Liquids 2: Flammable liquids - Category 2

Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A

Sensitization - Skin 1: Skin sensitisation - Category 1

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2

* Data compared to the previous version altered.

USA