

1 Identification

- · Product identifier
- · Trade name: Mipa 2K-HS-Clearcoat C 290 LV 2.1
- · Application of the substance / the mixture Clear coating material, Varnish
- · 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:

Fleetwood Products Inc. 13 American Way Suite 15 USA - NJ 08884 Spotswood Tel.: +1 7324169590 e.mail: fleet089@hotmail.com

Reviewed on 06/29/2023

US: +1 872 5888271 (MIP) US Emergency Telephone Number (for transportation incidents only): 1-800-535-5053 (Infotrac)

Safety Data Sheet

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2 Hazard(s) identification

· Classification of the substance or mixture

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



Flammable Liquids 2

Toxic to Reproduction 1B

H225 Highly flammable liquid and vapor.



GHS08 Health hazard

H360 May damage fertility or the unborn child.

С БНS07

Eye 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



· Signal word Danger

• *Hazard-determining components of labeling:* 5-methylhexan-2-one acetone n-Butyl acetate Reaction mass of pentamethyl-piperidylsebacate

(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS

Professional Coating Systems

Printing date 06/30/2023

Reviewed on 06/29/2023

Trade name: Mipa 2K-HS-Clearcoat C 290 LV 2.1

(Contd. of page 1) Hazard statements H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H360 May damage fertility or the unborn child. H336 May cause drowsiness or dizziness. · Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P261 Avoid breathing dust/fume/gas/mist/vapors/spray Wear protective gloves/protective clothing/eye protection/face protection. P280 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304+P340 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 = 2Fire = 3Reactivity = 0 · HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 2FIRE 3 Fire = 3Reactivity = 0 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.

· Dangerous components:		
67-64-1	acetone	≥10- <u>≤</u> 20%
	n-Butyl acetate	<15%
	2-Butoxyethyl acetate	5-<10%
	5-methylhexan-2-one	2.5-<10%
	Pentaerythritol tetrakis(3-mercaptopropionate)	<i>≥</i> 0.1-<1%
	Reaction mass of pentamethyl-piperidylsebacate	<i>≥</i> 0.1-<1%
3648-18-8	dioctyltin dilaurate	<i>≥</i> 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.

(Contd. on page 3)

(Contd. of page 2)



Printing date 06/30/2023

acc. to OSHA HCS

Reviewed on 06/29/2023

Trade name: Mipa 2K-HS-Clearcoat C 290 LV 2.1

· 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.

Safety Data Sheet

- 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

- · 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 No further relevant information available.
- · Advice for firefighters

· Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures 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

· PAC-1:			
67-64-1	acetone	200 ppm	
123-86-4	n-Butyl acetate	5 ppm	
112-07-2	2-Butoxyethyl acetate	15 ppm	
110-12-3	5-methylhexan-2-one	50 ppm	
1330-20-7	Xylene	130 ppm	
108-65-6	2-Methoxy-1-methylethyl acetate	50 ppm	
100-41-4	4 Ethylbenzene 33 p		
78-83-1	3-1 Isobutanol 15		
540-97-6	97-6 Dodecamethylcyclohexasiloxane 150		
556-67-2	556-67-2 octamethylcyclotetrasiloxane 30 µ		
· PAC-2:			
67-64-1	acetone	3200* ppm	
123-86-4	n-Butyl acetate	200 ppm	
112-07-2	2-Butoxyethyl acetate	35 ppm	
110-12-3	5-methylhexan-2-one	69 ppm	
		(Contd. on page 4)	



Safety Data Sheet

acc. to OSHA HCS

Reviewed on 06/29/2023

Trade name: Mipa 2K-HS-Clearcoat C 290 LV 2.1

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1330-20-7	Xvlene	(Contd. of page 3 920* ppm
	2-Methoxy-1-methylethyl acetate	1,000 ppm
	Ethylbenzene	1100* ppm
78-83-1	Isobutanol	1,300 ppm
540-97-6	Dodecamethylcyclohexasiloxane	1,700 mg/m ³
556-67-2	octamethylcyclotetrasiloxane	68 ppm
PAC-3:		
67-64-1	acetone	5700* ppm
123-86-4	n-Butyl acetate	3000* ppm
112-07-2	2-Butoxyethyl acetate	210 ppm
110-12-3	5-methylhexan-2-one	190 ppm
1330-20-7	Xylene	2500* ppm
108-65-6	2-Methoxy-1-methylethyl acetate	5000* ppm
100-41-4	Ethylbenzene	1800* ppm
78-83-1	Isobutanol	8000* 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. Open and handle receptacle with care. 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.

(Contd. on page 5)



Safety Data Sheet acc. to OSHA HCS

Reviewed on 06/29/2023

Trade name: Mipa 2K-HS-Clearcoat C 290 LV 2.1

	(Contd. of page 4
67-64	4-1 acetone
PEL	Long-term value: 2400 mg/m³, 1000 ppm
REL	Long-term value: 590 mg/m³, 250 ppm
TLV	Short-term value: 500 ppm
	Long-term value: 250 ppm
	A4, BEI
	86-4 n-Butyl acetate
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
	07-2 2-Butoxyethyl acetate
	Long-term value: 33 mg/m³, 5 ppm
TLV	Long-term value: 20 ppm
	A3
	12-3 5-methylhexan-2-one
	Long-term value: 475 mg/m³, 100 ppm
	Long-term value: 240 mg/m³, 50 ppm
TLV	Short-term value: 50 ppm
	Long-term value: 20 ppm
Ingre	edients with biological limit values:
67-64	4-1 acetone
	25 mg/L
	Medium: urine
	Time: end of shift Parameter: Acetone (nonspecific)
Aaai	itional information: The lists that were valid during the creation were used as basis.
	osure controls
	onal protective equipment:
	eral protective and hygienic measures: a way from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing.
	h hands before breaks and at the end of work.
	e protective clothing separately.
	d contact with the eyes.
	d contact with the eyes and skin.
Brea	thing equipment:
	In case of brief exposure or low pollution use respiratory filter device. In case of intensiv
1	or longer exposure use respiratory protective device that is independent of circulating air
998	
	ection of hands:
Cala	ction of the glove material on consideration of the penetration times, rates of diffusion and t

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.

(Contd. on page 6)

USA

Safety Data Sheet

acc. to OSHA HCS

Reviewed on 06/29/2023

Trade name: Mipa 2K-HS-Clearcoat C 290 LV 2.1

Material of gloves

Professional Coating Systems

Printing date 06/30/2023

(Contd. of page 5)

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:



Tightly sealed goggles

9 Physical and chemical properties

Information on basic physical and c General Information	nemical properties
Appearance:	
Form:	Fluid
Color:	According to product specification
Odor: Odor threshold:	Characteristic Not determined.
pH-value:	Not determined.
•	Not determined.
Change in condition	l la data waina d
Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 56 °C (132.8 °F)
Flash point:	-17 °C (1.4 °F) (DIN EN ISO 1523:2002)
•	
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	280 °C (536 °F) (DIN 51794)
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosiv air/vapor mixtures are possible.
Explosion limits:	
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)
Density at 20 °C (68 °F):	0.977 g/cm³ (8.153 lbs/gal) (DIN EN ISO 2811-1)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wate	r): Not determined.

- USA



Reviewed on 06/29/2023

Trade name: Mipa 2K-HS-Clearcoat C 290 LV 2.1

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Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	15-17 s (DIN 53211/4)
Solvent content:	
VOC content:	25.08 %
	303 g/l / 2.5 lb/gal
Solids content (weight-%):	59.5 %
Other information	No further relevant information available.

Safety Data Sheet

acc. to OSHA HCS

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 (International Agency for Research on Cancer)

1330-20-7 Xylene

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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.

(Contd. on page 8)

3

USA

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/30/2023

Trade name: Mipa 2K-HS-Clearcoat C 290 LV 2.1

(Contd. of page 7)

Reviewed on 06/29/2023

· Additional ecological information:

· General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.
- 13 Disposal considerations

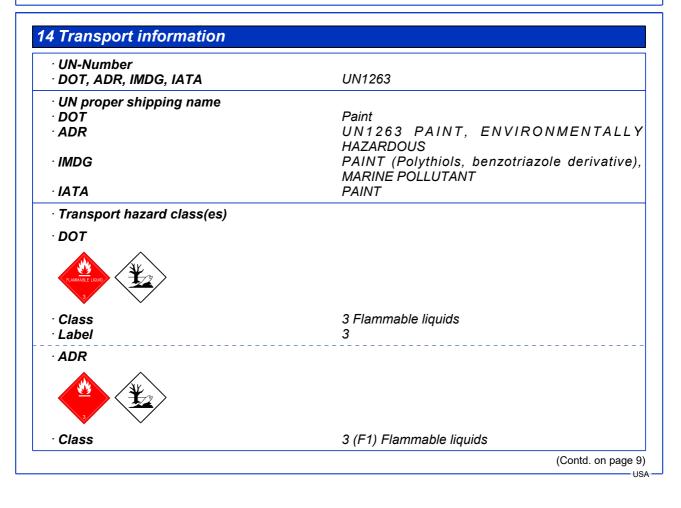
· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
- · Recommendation:

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







Reviewed on 06/29/2023

Trade name: Mipa 2K-HS-Clearcoat C 290 LV 2.1

	(Contd. of page
Label	3
IMDG	
	3 Flammable liquids
Label	3
ΙΑΤΑ	
	3 Flammable liquids
Label Packing group	3
	11
	Product contains environmentally hazardou substances: Polythiols
Marine pollutant:	Yes (DOT)
	Symbol (fish and tree) Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	
	F-E, <u>S-E</u>
Stowage Category	В
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT Remarks:	Special marking with the symbol (fish and tree).
ADR Limited quantities (LQ)	5L
IMDG Limited quantities (LQ)	5L
	UN 1263 PAINT, 3, II, ENVIRONMENTALL HAZARDOUS

Safety Data Sheet acc. to OSHA HCS

15 Regulatory information

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

· Sara

• Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

112-07-2 2-Butoxyethyl acetate

(Contd. on page 10)

USA



Safety Data Sheet

acc. to OSHA HCS

Reviewed on 06/29/2023

Trade name: Mipa 2K-HS-Clearcoat C 290 LV 2.1

		(Conto	l. of pag	e 9
1330-20-7	-			
100-41-4	Ethylbenzene			
·Hazardous	s Air Pollutants			
1330-20-7	Xylene			
100-41-4	Ethylbenzene			
· Propositio	n 65			
· Chemicals	known to cause cancer:			_
100-41-4 E	Ethylbenzene			
Chemicals	known to cause reproductive toxicity for females:			-
None of the	e ingredients is listed.			_
· Chemicals	known to cause reproductive toxicity for males:			=
None of the	e ingredients is listed.			-
· Chemicals	known to cause developmental toxicity:			-
None of the	e ingredients is listed.			
· Canceroge	enity categories			
· EPA (Envi	ronmental Protection Agency)			
67-64-1	acetone			Ι
1330-20-7	Xylene			Ι
100-41-4	Ethylbenzene			Ľ
· TLV (Three	shold Limit Value)			-
67-64-1	acetone	4 ≥	10- <u>≤</u> 20	%
112-07-2	2-Butoxyethyl acetate A	13 8	5-<10%	6
1330-20-7	Xylene A	\4	<1%	
100-41-4	Ethylbenzene A	13	<0.1%	
· NIOSH-Ca	(National Institute for Occupational Safety and Health)			-

None of the ingredients is listed.

· GHS label elements

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



· Signal word Danger

 Hazard-determining components of labeling: 5-methylhexan-2-one acetone n-Butyl acetate Reaction mass of pentamethyl-piperidylsebacate
 Hazard statements H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H360 May damage fertility or the unborn child. H336 May cause drowsiness or dizziness.
 Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. (Contd. on page 11) Professional Coating Systems

Printing date 06/30/2023

Reviewed on 06/29/2023

Trade name: Mipa 2K-HS-Clearcoat C 290 LV 2.1

 (Contd. of page 10) P261 Avoid breathing 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 06/30/2023 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 DOT: US Department of Transportation IATA: International Air Transport Association ELINCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Ist of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFFA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) 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 BE: Biological Exposure Limit BE: Biological Exposure Limit BE: Biological System Limit BE: Biological System Limit BE: Biological System Service (ategory 1 Toxic to Reproduction 1B: Reproductive toxicity – Category 1B Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 * Data compared to the previous version altered.

Safety Data Sheet acc. to OSHA HCS