Safety data sheet according to 1907/2006/EC, Article 31



Printing date 29.09.2023 Version

Version number 3 (replaces version 2)

Revision: 29.09.2023

SECTION 1: I	
undertaking	dentification of the substance/mixture and of the company/
· 1.1 Product ider	tifier
[.] Trade name: <u>Ep</u>	icol 81N Part B
 Sector of Use SU3 Industrial u Product categor 	224002B ntified uses of the substance or mixture and uses advised against ses: Uses of substances as such or in preparations at industrial sites y PC1 Adhesives, sealants he substance / the mixture Adhesives
• 1.3 Details of the • Manufacturer/Se APM Technica A Max-Schmidhein CH-9435 HEERE SCHWEIZ	G y-Str.201
Tel. +41 71 788 3 E-Mail: msds@aj • 1.4 Emergency 1 Tox Info Suisse Freiestrasse 16 CH-8032 Zürich	tion obtainable from: 31 00 (At office times only) om-technica.com aelephone number: y phone number: 145 (24h). From outside of Switzerland: +41 44 251 51 51
SECTION 2: H	lazards identification
	n of the substance or mixture
	ccording to Regulation (EC) No 1272/2008
	corrosion
GHS05 Eye Dam. 1	corrosion H318 Causes serious eye damage.
Eye Dam. 1 GHS09 Aquatic Acute 1	corrosion H318 Causes serious eye damage.
Eye Dam. 1 GHS09 Aquatic Acute 1	corrosion H318 Causes serious eye damage. environment H400 Very toxic to aquatic life.
GHS05 Eye Dam. 1 GHS09 Aquatic Acute 1 Aquatic Chronic GHS07 Skin Irrit. 2	corrosion H318 Causes serious eye damage. environment H400 Very toxic to aquatic life.
GHS05 Eye Dam. 1 GHS09 Aquatic Acute 1 Aquatic Chronic	corrosion H318 Causes serious eye damage. environment H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
GHS05 Eye Dam. 1 Eye Dam. 1 GHS09 Aquatic Acute 1 Aquatic Chronic GHS07 Skin Irrit. 2 Skin Sens. 1 2.2 Label elemen	corrosion H318 Causes serious eye damage. environment H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H315 Causes skin irritation. H317 May cause an allergic skin reaction.
GHS05 Eye Dam. 1 Eye Dam. 1 GHS09 Aquatic Acute 1 Aquatic Chronic GHS07 Skin Irrit. 2 Skin Sens. 1 • 2.2 Label element Labelling accord	corrosion H318 Causes serious eye damage. environment H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H315 Causes skin irritation. H317 May cause an allergic skin reaction.
GHS05 Eye Dam. 1 Eye Dam. 1 GHS09 Aquatic Acute 1 Aquatic Chronic GHS07 Skin Irrit. 2 Skin Sens. 1 • 2.2 Label element Labelling accord	corrosion H318 Causes serious eye damage. environment H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H315 Causes skin irritation. H317 May cause an allergic skin reaction.

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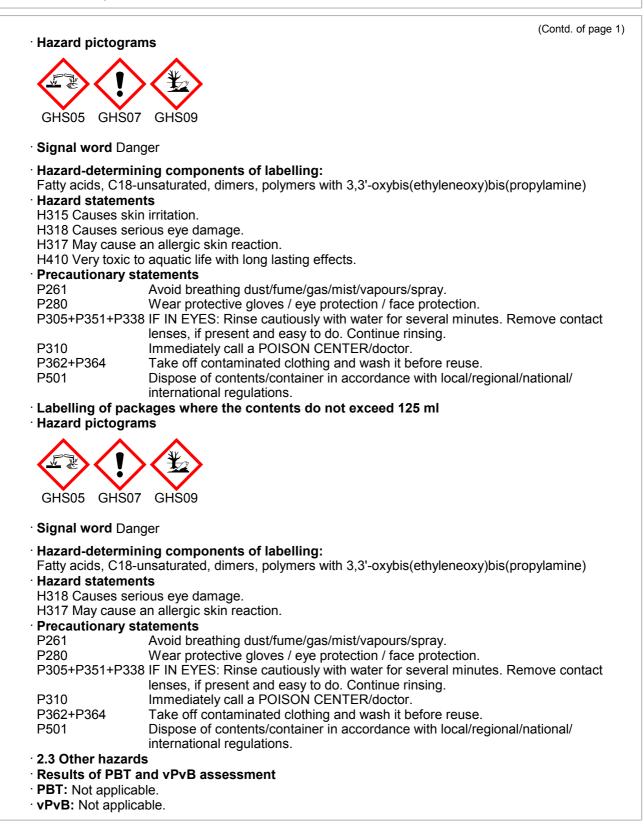
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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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

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to	
ts:	
Fatty acids, C18-unsaturated, dimers, polymers with 3,3'- oxybis(ethyleneoxy)bis(propylamine)	>25–≤100%
♦ Eye Dam. 1, H318; ♦ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ♦ Skin Irrit. 2, H315; Skin Sens. 1, H317	-
Kaolin substance with a Community workplace exposure limit	>25–≤100%
Carbon black Self-heat. 2, H252	≤2.5%
titanium dioxide Carc. 2, H351	<1%
((((((oxybis(ethyleneoxy)bis(propylamine) Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317 Kaolin substance with a Community workplace exposure limit Carbon black Self-heat. 2, H252 titanium dioxide

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 and to be sure call for a doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

- After swallowing: If symptoms persist consult doctor.
- **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
- Formation of toxic gases is possible during heating or in case of fire.
- 5.3 Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures 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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent. 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.

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See Section 13 for disposal information.

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SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:

• Requirements to be met by storerooms and receptacles: No special requirements.

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- · 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:

1332-58-7 Kaolin

OEL Long-term value: 2 mg/m³

1333-86-4 Carbon black

OEL Long-term value: 3* mg/m³

*inhalable fraction

• 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.
- Avoid contact with the skin.
- 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



Protective gloves

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

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

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.

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(Contd. of page 4) · Penetration 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. · Eye/face protection Tightly sealed goggles Body protection: Protective work clothing SECTION 9: Physical and chemical properties · 9.1 Information on basic physical and chemical properties · General Information · Physical state Fluid · Colour: Dark grey · Odour: Characteristic • Odour threshold: Not determined. · Melting point/freezing point: Undetermined. · Boiling point or initial boiling point and boiling range >152 °C · Flammability Not applicable. Lower and upper explosion limit · Lower: Not determined. · Upper: Not determined. >94 °C · Flash point: · Decomposition temperature: Not determined. · pH Not determined. · Viscosity: · Kinematic viscosity Not determined. · Dynamic at 20 °C: 40,000-80,000 mPas · Solubility · water: Not miscible or difficult to mix. Partition coefficient n-octanol/water (log value) Not determined. Vapour pressure: Not determined. Density and/or relative density · Density at 20 °C: 1.24-1.32 g/cm³ Relative density Not determined. · Vapour density Not determined. • 9.2 Other information · Appearance: · Form: Pasty · Important information on protection of health and environment, and on safety. · Ignition temperature: Product is not selfigniting. • Explosive properties: Product does not present an explosion hazard. · Solvent content: · VOC (EC) 0.00 % · Change in condition · Evaporation rate Not determined. · Information with regard to physical hazard classes Explosives Void

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Flammable gases	Void	
Aerosols	Void	
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	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
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 and carbon dioxide Nitrogen oxides (NOx)

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.

· LD/LC50	values rel	evant for classification:		
1333-86-4	Carbon b	lack		
Oral	LD50	10,000 mg/kg (rat)		
13463-67-	13463-67-7 titanium dioxide			
Oral	LD50	>20,000 mg/kg (rat)		
Dermal	LD50	>10,000 mg/kg (rabbit)		
Inhalative	LC50/4 h	>6.82 mg/l (rat)		
Serious e Respirato Germ cell Carcinog Reproduc STOT-sin STOT-rep	ye damag ry or skin mutagen enicity Ba stive toxic gle expos peated exp	 ation Causes skin irritation. e/irritation Causes serious eye damage. sensitisation May cause an allergic skin reaction. icity Based on available data, the classification criteria are not met. ity Based on available data, the classification criteria are not met. ity Based on available data, the classification criteria are not met. ure Based on available data, the classification criteria are not met. osure Based on available data, the classification criteria are not met. 		
- [(Contd. on page 7)		

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· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

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

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Remark: Very toxic for fish
- Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): 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. Also poisonous for fish and plankton in water bodies. Very toxic for 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.

· European waste catalogue

08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
HP4	Irritant - skin irritation and eye damage
HP13	Sensitising
HP14	Ecotoxic

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information • 14.1 UN number or ID number • ADR, IMDG, IATA UN3082 • 14.2 UN proper shipping name • ADR 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acids, C18unsaturated, dimers, polymers with 3,3'oxybis(ethyleneoxy)bis(propylamine)) • IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acids, C18unsaturated, dimers, polymers with 3,3'oxybis(ethyleneoxy)bis(propylamine)) • IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acids, C18used to the substance of the s

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rade name: Epicol 81N Part B		
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· IATA	unsaturated, dimers, polymers with 3,3'- oxybis(ethyleneoxy)bis(propylamine)), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acids, C18- unsaturated, dimers, polymers with 3,3'- oxybis(ethyleneoxy)bis(propylamine))	
 14.3 Transport hazard class(es) 		
· ADR, IMDG, IATA		
· Class · Label	9 Miscellaneous dangerous substances and articles. 9	
· 14.4 Packing group		
· ADR, IMDG, IATA	III	
 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): Special marking (IATA): 	Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)	
 · 14.6 Special precautions for user · Hazard identification number (Kemler code) · EMS Number: · Stowage Category 	Warning: Miscellaneous dangerous substances and articles.): 90 F-A,S-F A	
 14.7 Maritime transport in bulk according to IMO instruments 	Not applicable.	
· Transport/Additional information:		
ADR Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml	
 Transport category Tunnel restriction code 	3 (-)	
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml	
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FATTY ACIDS, C18-UNSATURATED, DIMERS, POLYMERS WITH 3,3'-OXYBIS(ETHYLENEOXY) BIS(PROPYLAMINE)), 9, III	

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 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture 		
 Directive 2012/18/EU Named dangerous substances - ANNEX I Nor Seveso category E1 Hazardous to the Aquatic Qualifying quantity (tonnes) for the applicatio Qualifying quantity (tonnes) for the applicatio REGULATION (EC) No 1907/2006 ANNEX XVI 	Environment on of lower-tier requirements 100 t on of upper-tier requirements 200 t I Conditions of restriction: 3	
 DIRECTIVE 2011/65/EU on the restriction of t electrical and electronic equipment – Annex 		
None of the ingredients is listed.		
REGULATION (EU) 2019/1148		
 Annex I - RESTRICTED EXPLOSIVES PRECU licensing under Article 5(3)) 	RSORS (Upper limit value for the purpose of	
None of the ingredients is listed.		
Annex II - REPORTABLE EXPLOSIVES PREC	URSORS	
None of the ingredients is listed.		
Regulation (EC) No 273/2004 on drug precurs	Sors	
None of the ingredients is listed.		
 Regulation (EC) No 111/2005 laying down rul Community and third countries in drug precu 		
None of the ingredients is listed.		
• 15.2 Chemical safety assessment: A Chemica	I Safety Assessment has not been carried out.	
SECTION 4C: Other information		
for any specific product features and shall not es	dge. However, this shall not constitute a guarantee	
amended by Regulation (EU) 2020/878.	stablish a legally valid contractual relationship. egulation (EC) No 1907/2006, Article 31 as	
	egulation (EC) No 1907/2006, Article 31 as	
 amended by Regulation (EU) 2020/878. Relevant phrases H252 Self-heating in large quantities; may catch H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H351 Suspected of causing cancer. H400 Very toxic to aquatic life. 	egulation (EC) No 1907/2006, Article 31 as fire.	
 amended by Regulation (EU) 2020/878. Relevant phrases H252 Self-heating in large quantities; may catch H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H351 Suspected of causing cancer. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting e 	egulation (EC) No 1907/2006, Article 31 as fire.	
 amended by Regulation (EU) 2020/878. Relevant phrases H252 Self-heating in large quantities; may catch H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H351 Suspected of causing cancer. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting e Classification according to Regulation (EC) N Skin corrosion/irritation Serious eye damage/irritation Skin sensitisation Hazardous to the aquatic environment - short-term (acute) aquatic hazard Hazardous to the aquatic environment - long- 	egulation (EC) No 1907/2006, Article 31 as fire. ffects. Jo 1272/2008 The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No	

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 Abbreviations and acronyms: 	,
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agree	ement Concerning
the International Carriage of Dangerous Goods by Road)	Ū
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)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Self-heat. 2: Self-heating substances and mixtures – Category 2	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
Skin Sens. 1: Skin sensitisation – Category 1	
Carc. 2: Carcinogenicity – Category 2	
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	
* * Data compared to the previous version altered.	
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