

Printing date 29.09.2023

Version number 2 (replaces version 1)

Revision: 29.09.2023

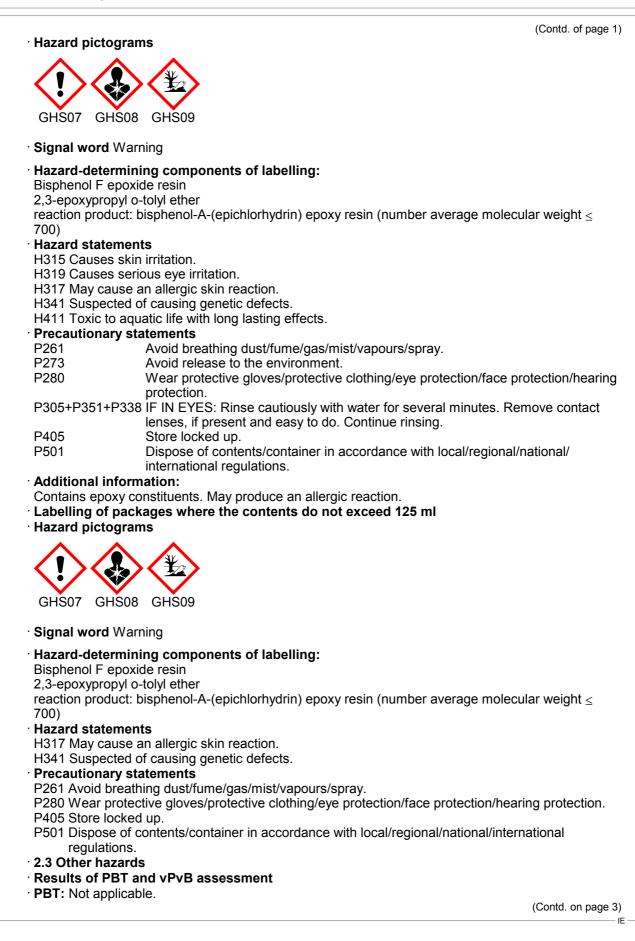
SECTION 1: I undertaking	dentification of the substance/mixture and of the company/
· 1.1 Product ide	ntifier
[.] Trade name: <u>Ep</u>	icol 83S Part A
 Sector of Use SU3 Industrial u Product catego 	202392A entified uses of the substance or mixture and uses advised against uses: Uses of substances as such or in preparations at industrial sites ry PC1 Adhesives, sealants the substance / the mixture Adhesives
 1.3 Details of th Manufacturer/S APM Technica A Max-Schmidhein CH-9435 HEERE SCHWEIZ 	G y-Str.201
Tel. +41 71 788 E-Mail: msds@a • 1.4 Emergency Tox Info Suisse Freiestrasse 16 CH-8032 Zürich	tion obtainable from: 31 00 (At office times only) pm-technica.com telephone number: y phone number: 145 (24h). From outside of Switzerland: +41 44 251 51 51
SECTION 2: I	Hazards identification
· 2.1 Classificatio	Hazards identification on of the substance or mixture ccording to Regulation (EC) No 1272/2008
· 2.1 Classificatio · Classification a	n of the substance or mixture
· 2.1 Classificatio · Classification a	n of the substance or mixture ccording to Regulation (EC) No 1272/2008
• 2.1 Classification a • Classification a • GHS08 Muta. 2	n of the substance or mixture ccording to Regulation (EC) No 1272/2008 health hazard
• 2.1 Classification a • Classification a • GHS08 Muta. 2 • GHS09	on of the substance or mixture ccording to Regulation (EC) No 1272/2008 health hazard H341 Suspected of causing genetic defects.
• 2.1 Classification a • Classification a • GHS08 Muta. 2 • GHS09	 an of the substance or mixture a coording to Regulation (EC) No 1272/2008 b health hazard H341 Suspected of causing genetic defects. a environment 2 H411 Toxic to aquatic life with long lasting effects.
2.1 Classification a Classification a GHS08 Muta. 2 Aquatic Chronic	 an of the substance or mixture a coording to Regulation (EC) No 1272/2008 b health hazard H341 Suspected of causing genetic defects. a environment 2 H411 Toxic to aquatic life with long lasting effects.
2.1 Classification a Classification a GHS08 Muta. 2 Aquatic Chronic Skin Irrit. 2 Eye Irrit. 2	 an of the substance or mixture ccording to Regulation (EC) No 1272/2008 b health hazard H341 Suspected of causing genetic defects. a environment 2 H411 Toxic to aquatic life with long lasting effects. H315 Causes skin irritation. H319 Causes serious eye irritation.
2.1 Classification a Classification a GHS08 Muta. 2 Aquatic Chronic Skin Irrit. 2	 an of the substance or mixture ccording to Regulation (EC) No 1272/2008 bealth hazard H341 Suspected of causing genetic defects. environment 2 H411 Toxic to aquatic life with long lasting effects. H315 Causes skin irritation.
 2.1 Classification a Classification a Classification a GHS08 Muta. 2 Muta. 2 GHS09 Aquatic Chronic Aquatic Chronic GHS07 Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1 2.2 Label eleme 	 an of the substance or mixture ccording to Regulation (EC) No 1272/2008 bealth hazard H341 Suspected of causing genetic defects. environment H411 Toxic to aquatic life with long lasting effects. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.
 2.1 Classification a Classification a Classification a GHS08 Muta. 2 Muta. 2 GHS09 Aquatic Chronic Aquatic Chronic GHS07 Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1 2.2 Label eleme Labelling accor 	 an of the substance or mixture ccording to Regulation (EC) No 1272/2008 bealth hazard H341 Suspected of causing genetic defects. environment 2 H411 Toxic to aquatic life with long lasting effects. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. nts ding to Regulation (EC) No 1272/2008
 2.1 Classification a Classification a Classification a GHS08 Muta. 2 Muta. 2 GHS09 Aquatic Chronic Aquatic Chronic GHS07 Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1 2.2 Label eleme Labelling accor 	 an of the substance or mixture ccording to Regulation (EC) No 1272/2008 bealth hazard H341 Suspected of causing genetic defects. environment H411 Toxic to aquatic life with long lasting effects. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

Printing date 29.09.2023

Version number 2 (replaces version 1)

Revision: 29.09.2023

Trade name: Epicol 83S Part A



Page 3/10

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

Printing date 29.09.2023

Version number 2 (replaces version 1)

Revision: 29.09.2023

(Contd. of page 2)

Trade name: Epicol 83S Part A

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

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

 Dangerous compo 	nents:	
CAS: 9003-36-5	Bisphenol F epoxide resin Aquatic Chronic 2, H411; () Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	>10-<25%
CAS: 25068-38-6 NLP: 500-033-5	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) ♦ Aquatic Chronic 2, H411; ♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH205 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	≥5–≤10%
CAS: 2210-79-9 EINECS: 218-645-3	2,3-epoxypropyl o-tolyl ether Muta. 2, H341; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	>2.5-<10%
· Additional information	tion: For the wording of the listed hazard phrases refer to section	16

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

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. If symptoms persist, 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: Use fire extinguishing methods suitable to surrounding conditions.
- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- 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.

(Contd. on page 4)

IE

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.09.2023

Version number 2 (replaces version 1)

Revision: 29.09.2023

Trade name: Epicol 83S Part A

(Contd. of page 3) · 6.3 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. 6.4 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. SECTION 7: Handling and storage 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols. • Information about fire - and explosion protection: Keep respiratory protective device available. · 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. · 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. Store protective clothing separately. Avoid contact with the eyes and skin. **Respiratory protection:** Not necessary if room is well-ventilated. 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 (Contd. on page 5) IE

Printing date 29.09.2023

Version number 2 (replaces version 1)

Revision: 29.09.2023

Trade name: Epicol 83S Part A

· Material of gloves

(Contd. of page 4)

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.

• **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 chemica	l properties
· 9.1 Information on basic physical and che	emical properties
General Information	
Physical state	Fluid
· Colour:	Silver grey
· Odour:	Characteristic
· Odour threshold:	Not determined.
 Melting point/freezing point: 	Undetermined.
Boiling point or initial boiling point and	
boiling range	Undetermined.
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
Flash point:	Not applicable.
• Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	10,000–25,000 mPas
· Solubility	10,000 20,000 mi uo
· 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	Not determined.
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
	Not dotorminou.
9.2 Other information	
· Appearance:	
· Form:	Pasty
 Important information on protection of he 	alth
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 %
Solids content:	76.0 %
	(Contd. on page 6)

(Contd. on page 6)

IE

Printing date 29.09.2023

Version number 2 (replaces version 1)

Revision: 29.09.2023

(a. . .

Trade name: Epicol 83S Part A

		(Contd. of page
Change in condition		
Evaporation rate	Not determined.	
Information with regard to physical hazard		
classes		
Explosives	Void	
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: No dangerous decomposition products known.

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.
- Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- · Germ cell mutagenicity Suspected of causing genetic defects.
- 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 Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

(Contd. on page 7)

Page 7/10

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

Printing date 29.09.2023

Version number 2 (replaces version 1)

Revision: 29.09.2023

Trade name: Epicol 83S Part A

(Contd. of page 6)

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: 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. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

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
HP11	Mutagenic
HP13	Sensitising
HP14	Ecotoxic

· Uncleaned packaging:

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

LLY HAZARDOUS N.O.S. (Bisphenol F product: bisphenol-A- esin (number average))

Page 8/10

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

Printing date 29.09.2023

Version number 2 (replaces version 1)

Revision: 29.09.2023

inting date 29.09.2023 Version number 2	(replaces version 1) Revision: 29.09.20
ade name: Epicol 83S Part A	
	(Contd. of pag
· IMDG · IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol F epoxide resin, reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol F epoxide resin, reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
	9 Miscellaneous dangerous substances and articles. 9
· Label · 14.4 Packing group	9
· ADR, IMDG, IATA	III
 14.5 Environmental hazards: Marine pollutant: 	Product contains environmentally hazardous substances: Bisphenol F epoxide resin Symbol (fish and tree)
 Special marking (ADR): Special marking (IATA): 	Symbol (fish and tree) Symbol (fish and tree)
• 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
 Hazard identification number (Kemler code): EMS Number: Stowage Category 	: 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 m Maximum net quantity per outer packaging: 1000
 Transport category Tunnel restriction code 	ml 3 (-)
·IMDG	
 Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 m Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL F EPOXIDE RESIN, REACTION PRODUCT: BISPHENOL A (EDICHLOBHYDDIN) EDOXY

(Contd. on page 9)

BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR

⁻ IE

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.09.2023

Version number 2 (replaces version 1)

Revision: 29.09.2023

Trade name: Epicol 83S Part A

(Contd. of page 8)

WEIGHT ≤ 700)), 9, III

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category E2 Hazardous to the Aquatic Environment
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements $500\ t$
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

• Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

 Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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. This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

Relevant phrases

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H341 Suspected of causing genetic defects.
- H411 Toxic to aquatic life with long lasting effects.

EUH205 Contains epoxy constituents. May produce an allergic reaction.

· Classification according to Regulation (EC) No 1272/2008

Skin corrosion/irritation Serious eye damage/irritation Skin sensitisation Germ cell mutagenicity Hazardous to the aquatic environment - long- term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
---	---

· Department issuing SDS: Technology

· Contact: msds@apm-technica.com

• Date of previous version: 29.09.2023

(Contd. on page 10)

IE

Page 10/10

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

Printing date 29.09.2023

Version number 2 (replaces version 1)

Revision: 29.09.2023

Trade name: Epicol 83S Part A

	(Contd. of pag
· Version number of previous version: 1	
· Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchandises dangereuses par rou	te (European Agreement Concerni
the International Carriage of Dangerous Goods by Road)	te (European Agreement concernin
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)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
Skin Sens. 1: Skin sensitisation – Category 1	
Muta. 2: Germ cell mutagenicity – Category 2	
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard -	- Category 2
* * Data compared to the previous version altered.	



Printing date 29.09.2023

Version number 3 (replaces version 2)

Revision: 29.09.2023

SECTION 1: Identification of the substance/mixture and of the company/ undertaking
· 1.1 Product identifier
· Trade name: Epicol 83S Part B
 Article number: 202392B 1.2 Relevant identified uses of the substance or mixture and uses advised against Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites Product category PC1 Adhesives, sealants Application of the substance / the mixture Adhesives
• 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier: APM Technica AG Max-Schmidheiny-Str.201 CH-9435 HEERBRUGG SCHWEIZ
 Further information obtainable from: Tel. +41 71 788 31 00 (At office times only) E-Mail: msds@apm-technica.com 1.4 Emergency telephone number: Tox Info Suisse Freiestrasse 16 CH-8032 Zürich Swiss Emergency phone number: 145 (24h). From outside of Switzerland: +41 44 251 51 51
SECTION 2: Hazards identification • 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008
GHS05 corrosion
Eye Dam. 1 H318 Causes serious eye damage.
 • 2.2 Label elements • Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. • Hazard pictograms
GHS05
GHS05

Safety data sheet

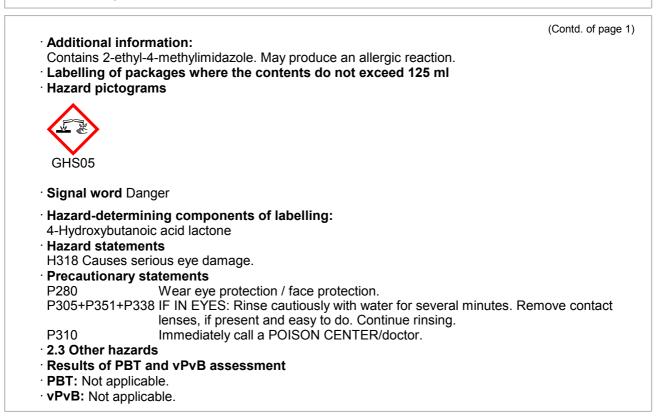
according to 1907/2006/EC, Article 31

Printing date 29.09.2023

Version number 3 (replaces version 2)

Revision: 29.09.2023

Trade name: Epicol 83S Part B



SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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

Dangerous compor	nents:	
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	≥3–≤10%
EINECS: 202-509-5	♦ Eye Dam. 1, H318;	
CAS: 23996-25-0	2-Ethyl-4-methyl-1H-imidazole-1-propanenitrile	>2.5-<10%
EINECS: 245-975-5	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	
CAS: 931-36-2	2-ethyl-4-methylimidazole	≥0.1–<1%
EINECS: 213-234-5	♦ Eye Dam. 1, H318; ♦ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	
Additional information: For the wording of the listed bazard phrases refer to eastion 16		

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

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- 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.

(Contd. on page 3)

Printing date 29.09.2023

Version number 3 (replaces version 2)

Revision: 29.09.2023

Trade name: Epicol 83S Part B

(Contd. of page 2)

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

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 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.

6.4 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.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling No special precautions are necessary if used correctly. • 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- 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 eyes. Avoid contact with the eyes and skin.
- **Respiratory protection:** Not required.

(Contd. on page 4)

IE

Printing date 29.09.2023

Version number 3 (replaces version 2)

Revision: 29.09.2023

(Contd. of page 3)

Trade name: Epicol 83S Part B

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.

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		
 9.1 Information on basic physical and chen General Information 	lical properties	
· Physical state	Fluid	
· Colour:	Silver grey	
· Odour:	Characteristic	
· Odour threshold:	Not determined.	
 Melting point/freezing point: 	Undetermined.	
· Boiling point or initial boiling point and		
boiling range	Undetermined.	
· Flammability	Not applicable.	
· Lower and upper explosion limit		
· Lower:	Not determined.	
· Upper:	Not determined.	
Flash point:	Not applicable.	
Decomposition temperature:	Not determined.	
· pH	Not determined.	
· Viscosity:		
Kinematic viscosity	Not determined.	
· Dynamic at 20 °C:	10,000–25,000 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:	Not determined.	
· Relative density	Not determined.	
		(Contd. on page 5)

Printing date 29.09.2023

Version number 3 (replaces version 2)

Revision: 29.09.2023

(a) () (

• •

Trade name: Epicol 83S Part B

Vapour density	(Contd. of page Not determined.
9.2 Other information	
Appearance:	
Form:	Pasty
Important information on protection of hea	
and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
Organic solvents:	6.0 %
VOC (EC)	6.00 %
Solids content:	88.0 %
Change in condition	00.0 /0
Evaporation rate	Not determined.
•	
Information with regard to physical hazard	1
classes	
Explosives	Void
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: No dangerous decomposition products known.

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 relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 <6,339 mg/kg (rat)

(Contd. on page 6)

IE

Printing date 29.09.2023

Version number 3 (replaces version 2)

Revision: 29.09.2023

(Contd. of page 5)

Trade name: Epicol 83S Part B

96-48-0 4-Hydroxybutanoic acid lactone

Oral LD50 1,540 mg/kg (rat)

Dermal LD50 5,000 mg/kg (gui)

· Skin corrosion/irritation Based on available data, the classification criteria are not met.

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.
- \cdot Reproductive toxicity Based on available data, the classification criteria are not met.
- \cdot STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

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
- · 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.

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

· Uncleaned packaging:

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

(Contd. on page 7)

Printing date 29.09.2023

Version number 3 (replaces version 2)

Revision: 29.09.2023

(Contd. of page 6)

Trade name: Epicol 83S Part B

SECTION 14: Transport informa	tion
[·] 14.1 UN number or ID number [·] ADR, IMDG, IATA	not regulated
[·] 14.2 UN proper shipping name [·] ADR, IMDG, IATA	not regulated
· 14.3 Transport hazard class(es)	
[·] ADR, ADN, IMDG, IATA [·] Class	not regulated
[·] 14.4 Packing group [·] ADR, IMDG, IATA	not regulated
· 14.5 Environmental hazards:	Not applicable.
[·] 14.6 Special precautions for user	Not applicable.
 14.7 Maritime transport in bulk accord IMO instruments 	ing to Not applicable.
· UN "Model Regulation":	not regulated

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
- None of the ingredients is listed.
- · REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
- None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

 Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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. This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

Relevant phrases

H302 Harmful if swallowed. H315 Causes skin irritation.

(Contd. on page 8)

Version number 3 (replaces version 2)

Revision: 29.09.2023

Trade name: Epicol 83S Part B

Printing date 29.09.2023

H336 May cause drowsiness H412 Harmful to aquatic life v	
· Classification according to	Regulation (EC) No 1272/2008
Serious eye damage/irritation	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
• Department issuing SDS: T	
 Contact: msds@apm-technic 	
 Date of previous version: 29 	9.09.2023
Version number of previous	s version: 2
· Abbreviations and acronym	1S:
	rnational des marchandises dangereuses par route (European Agreement Concernin
the International Carriage of Denger	ious Goods by Road)
the International Carriage of Danger	
IMDG: International Maritime Code f	for Dangerous Goods
IMDG: International Maritime Code for IATA: International Air Transport Ass	for Dangerous Goods sociation
IMDG: International Maritime Code for IATA: International Air Transport Ass GHS: Globally Harmonised System of	for Dangerous Goods sociation of Classification and Labelling of Chemicals
IMDG: International Maritime Code for IATA: International Air Transport Ass GHS: Globally Harmonised System of EINECS: European Inventory of Exis ELINCS: European List of Notified C	for Dangerous Goods sociation of Classification and Labelling of Chemicals sting Commercial Chemical Substances Chemical Substances
IMDG: International Maritime Code fr IATA: International Air Transport Ass GHS: Globally Harmonised System of EINECS: European Inventory of Exis ELINCS: European List of Notified C CAS: Chemical Abstracts Service (d	for Dangerous Goods sociation of Classification and Labelling of Chemicals sting Commercial Chemical Substances Chemical Substances livision of the American Chemical Society)
IMDG: International Maritime Code fr IATA: International Air Transport Ass GHS: Globally Harmonised System of EINECS: European Inventory of Exis ELINCS: European List of Notified C CAS: Chemical Abstracts Service (d VOC: Volatile Organic Compounds (for Dangerous Goods sociation of Classification and Labelling of Chemicals sting Commercial Chemical Substances Chemical Substances livision of the American Chemical Society) (USA, EU)
IMDG: International Maritime Code fr IATA: International Air Transport Ass GHS: Globally Harmonised System of EINECS: European Inventory of Exis ELINCS: European List of Notified C CAS: Chemical Abstracts Service (d VOC: Volatile Organic Compounds (LC50: Lethal concentration, 50 perce	for Dangerous Goods sociation of Classification and Labelling of Chemicals sting Commercial Chemical Substances Chemical Substances livision of the American Chemical Society) (USA, EU)
IMDG: International Maritime Code fr IATA: International Air Transport Ass GHS: Globally Harmonised System of EINECS: European Inventory of Exis ELINCS: European List of Notified C CAS: Chemical Abstracts Service (d VOC: Volatile Organic Compounds (LC50: Lethal concentration, 50 percent	for Dangerous Goods sociation of Classification and Labelling of Chemicals sting Commercial Chemical Substances Chemical Substances livision of the American Chemical Society) (USA, EU) ent
IMDG: International Maritime Code fr IATA: International Air Transport Ass GHS: Globally Harmonised System of EINECS: European Inventory of Exis ELINCS: European List of Notified C CAS: Chemical Abstracts Service (d VOC: Volatile Organic Compounds (LC50: Lethal concentration, 50 percent DBT: Persistent, Bioaccumulative ar	for Dangerous Goods sociation of Classification and Labelling of Chemicals sting Commercial Chemical Substances Chemical Substances livision of the American Chemical Society) (USA, EU) ent nd Toxic
IMDG: International Maritime Code fr IATA: International Air Transport Ass GHS: Globally Harmonised System of EINECS: European Inventory of Exis ELINCS: European List of Notified C CAS: Chemical Abstracts Service (d VOC: Volatile Organic Compounds (LC50: Lethal concentration, 50 percent	for Dangerous Goods sociation of Classification and Labelling of Chemicals sting Commercial Chemical Substances Chemical Substances livision of the American Chemical Society) (USA, EU) ent nd Toxic ccumulative
IMDG: International Maritime Code fi IATA: International Air Transport Ass GHS: Globally Harmonised System of EINECS: European Inventory of Exis ELINCS: European List of Notified C CAS: Chemical Abstracts Service (d VOC: Volatile Organic Compounds (LC50: Lethal concentration, 50 percent DBT: Persistent, Bioaccumulative ar vPvB: very Persistent and very Bioac Acute Tox. 4: Acute toxicity – Catego Skin Irrit. 2: Skin corrosion/irritation –	for Dangerous Goods sociation of Classification and Labelling of Chemicals sting Commercial Chemical Substances Chemical Substances livision of the American Chemical Society) (USA, EU) ent nd Toxic ccumulative ory 4 – Category 2
IMDG: International Maritime Code fi IATA: International Air Transport Ass GHS: Globally Harmonised System of EINECS: European Inventory of Exis ELINCS: European List of Notified C CAS: Chemical Abstracts Service (d VOC: Volatile Organic Compounds (LC50: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative an vPvB: very Persistent and very Bioac Acute Tox. 4: Acute toxicity – Catego Skin Irrit. 2: Skin corrosion/irritation – Eye Dam. 1: Serious eye damage/ey	for Dangerous Goods sociation of Classification and Labelling of Chemicals sting Commercial Chemical Substances Chemical Substances livision of the American Chemical Society) (USA, EU) ent nd Toxic ccumulative ory 4 – Category 2 ye irritation – Category 1
IMDG: International Maritime Code fi IATA: International Air Transport Ass GHS: Globally Harmonised System of EINECS: European Inventory of Exis ELINCS: European List of Notified C CAS: Chemical Abstracts Service (d VOC: Volatile Organic Compounds (LC50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative ar vPvB: very Persistent and very Bioac Acute Tox. 4: Acute toxicity – Catego Skin Irrit. 2: Skin corrosion/irritation – Eye Dam. 1: Serious eye damage/eye	for Dangerous Goods sociation of Classification and Labelling of Chemicals sting Commercial Chemical Substances chemical Substances livision of the American Chemical Society) (USA, EU) ent and Toxic ccumulative ory 4 – Category 2 ye irritation – Category 1 e irritation – Category 2
IMDG: International Maritime Code fr IATA: International Air Transport Ass GHS: Globally Harmonised System of EINECS: European Inventory of Exis ELINCS: European List of Notified C CAS: Chemical Abstracts Service (d VOC: Volatile Organic Compounds (LC50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and vPvB: very Persistent and very Bioac Acute Tox. 4: Acute toxicity – Categor Skin Irrit. 2: Skin corrosion/irritation – Eye Dam. 1: Serious eye damage/eye Skin Sens. 1: Skin sensitisation – Categor	for Dangerous Goods sociation of Classification and Labelling of Chemicals sting Commercial Chemical Substances Chemical Substances livision of the American Chemical Society) (USA, EU) ent and Toxic ccumulative ory 4 – Category 2 ye irritation – Category 1 e irritation – Category 2 ategory 1
IMDG: International Maritime Code fi IATA: International Air Transport Ass GHS: Globally Harmonised System of EINECS: European Inventory of Exis ELINCS: European List of Notified C CAS: Chemical Abstracts Service (d VOC: Volatile Organic Compounds (LC50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and vPvB: very Persistent and very Bioac Acute Tox. 4: Acute toxicity – Categor Skin Irrit. 2: Skin corrosion/irritation – Eye Dam. 1: Serious eye damage/eye Skin Sens. 1: Skin sensitisation – Ca STOT SE 3: Specific target organ to	for Dangerous Goods sociation of Classification and Labelling of Chemicals sting Commercial Chemical Substances chemical Substances livision of the American Chemical Society) (USA, EU) ent and Toxic ccumulative ory 4 – Category 2 ye irritation – Category 1 e irritation – Category 2