

Safety Data Sheet

A Meridian Adhesives Group Company according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 02/03/2022 Revision date: 30/01/2023 Supersedes version of: 02/03/2022 Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form Product name	: Mixture : EPO-TEK® H20E PART A
1.2. Relevant identified uses of the s	substance or mixture and uses advised against
1.2.1. Relevant identified uses Use of the substance/mixture 1.2.2. Uses advised against	: Adhesives
Restrictions on use	: Not to be used for any purpose other than the one the product was designed for
1.3. Details of the supplier of the saf	fety data sheet
Epoxy Technology, Inc. 14 Fortune Drive 01821 Billerica, MA 01821 USA T 978-667-3805 - F 978-663-9782 www.epotek.com	
1.4. Emergency telephone number	

2.1. Classification of the substance or mixture	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Skin corrosion/irritation, Category 2	H315
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400
Hazardous to the aquatic environment – Chronic Hazard, Category 1	H410
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	GHS07 GHS09
Signal word (CLP)	: Warning
Contains	: Epoxy phenol novolac resin
Hazard statements (CLP)	: H315 - Causes skin irritation.
	H317 - May cause an allergic skin reaction.
	H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
	P264 - Wash hands, forearms and face thoroughly after handling.
	P272 - Contaminated work clothing should not be allowed out of the workplace.
	P273 - Avoid release to the environment.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing

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protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

2.3. Other hazards

Other hazards which do not result in classification : Harmful dust may be released during cutting, milling or grinding process.

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
Silver (7440-22-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Epoxy phenol novolac resin (9003-36-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Silver substance with a Community workplace exposure limit	CAS-No.: 7440-22-4 EC-No.: 231-131-3	≥ 60	Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)
Epoxy phenol novolac resin	CAS-No.: 9003-36-5 EC-No.: 500-006-8	30 – 60	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411

Comments

: Components not listed are either non-hazardous or are below reportable limits.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.		
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.		
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.		
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.		
4.2. Most important symptoms and effects, both acute and delayed			
Symptoms/effects after skin contact Symptoms/effects after eye contact	: Irritation. May cause an allergic skin reaction. : Eye irritation.		

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4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

: Water spray. Dry powder. Foam. Carbon dioxide.		
5.2. Special hazards arising from the substance or mixture		
: Toxic fumes may be released.		
: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		

SECTION 6. Accidental release measures			
6.1. Personal precautions, protective ec	quipment and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Avoid release to the environment.			

6.3. Methods and material for containment and cleaning up		
For containment Methods for cleaning up Other information	 Collect spillage. Take up liquid spill into absorbent material. Dispose of materials or solid residues at an authorized site. 	
6.4. Reference to other sections		

For further information refer to section 13.

SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling Hygiene measures	 Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. 		
7.2. Conditions for safe storage, including any incompatibilities			
Storage conditions	: Store in a well-ventilated place. Keep cool.		
7.3. Specific end use(s)			

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Silver (7440-22-4)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	0,1 mg/m³	
Germany - Occupational Exposure Limits (TRGS 900)		
Local name	Silber	
AGW (OEL TWA) [1]	0,1 mg/m³ (E)	
Peak exposure limitation factor	8(II)	
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich)	
Regulatory reference	TRGS900	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear suitable gloves resistant to chemical penetration. Neoprene or nitrile rubber gloves. Butyl-rubber protective gloves. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Refer to manufacturer's information. Gloves must be replaced after each use and whenever signs of wear or perforation appear

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8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Silver.
Odour	:	Mild odour.
Odour threshold	:	Not available
Melting point	:	Not applicable
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Not applicable
Explosive limits	:	Not available
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	Not available
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
рН	:	Not available
Viscosity, kinematic	:	Not available
Solubility	:	Not available
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	Not available
Relative density	:	Not available
Relative vapour density at 20°C	:	Not available
Particle size	:	Not applicable
Particle size distribution	:	Not applicable
Particle shape	:	Not applicable
Particle aspect ratio	:	Not applicable
Particle aggregation state	:	Not applicable
Particle agglomeration state	:	Not applicable
Particle specific surface area	:	Not applicable
Particle dustiness	:	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological informati	ion
11.1. Information on hazard classes as d	efined in Regulation (EC) No 1272/2008
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	: Not classified : Not classified : Not classified
Silver (7440-22-4)	
LD50 oral rat	> 2000 mg/kg Source: ECHA
LD50 oral	5000 mg/kg
LD50 dermal rat	> 2000 mg/kg Source: ECHA
LD50 dermal	2500 mg/kg
LC50 Inhalation - Rat	> 5,16 mg/l air Animal: rat, Guideline: OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class Method)
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Silver (7440-22-4)	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity Study in Rodents)
Epoxy phenol novolac resin (9003-36-5)	
NOAEL (oral, rat, 90 days)	≈ 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity in Rodents)
Aspiration hazard	: Not classified
11.2. Information on other hazards	

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SECTION 12: Ecological information

12.1.	To	vic	ity
12.1.	10	XIU	ILY

12.1. Toxicity		
Ecology - general : Very toxic to aquatic life with long lasting effects. Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life. Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects. Not rapidly degradable : Very toxic to aquatic life with long lasting effects.		
Silver (7440-22-4)		
LC50 - Fish [1]	4,7 μg/l Test organisms (species): Pimephales promelas	
LC50 - Fish [2]	89,4 μg/l Test organisms (species): Pimephales promelas	
ErC50 algae	0,285 µg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)	
Epoxy phenol novolac resin (9003-36-5)		
LC50 - Fish [1]	1,9 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Semi-static system, Fresh water, Weight of evidence)	
LC50 - Fish [2]	1000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)	
EC50 - Crustacea [1]	3,5 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Weight of evidence, GLP)	
EC50 72h - Algae [1]	1,8 mg/l (Equivalent or similar to OECD 201, Selenastrum capricornutum, Static system, Fresh water, Experimental value)	
LOEC (chronic)	1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	0,3 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	

12.2. Persistence and degradability

Silver (7440-22-4)	
Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
Epoxy phenol novolac resin (9003-36-5)	
Persistence and degradability Not readily biodegradable in water.	
12.3. Bioaccumulative potential	
Silver (7440-22-4)	
BCF - Fish [1] 70 (30 day(s), Cyprinus carpio, Fresh water, Experimental value, Fresh weight)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Epoxy phenol novolac resin (9003-36-5)	
Partition coefficient n-octanol/water (Log Pow)	2,7 – 3,6 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

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12.4. Mobility in soil	
Silver (7440-22-4)	
Ecology - soil	No (test)data on mobility of the substance available.
Epoxy phenol novolac resin (9003-36-5)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3,65 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
Ecology - soil	Low potential for mobility in soil.
12.5. Results of PBT and vPvB assessment	
Component	

Silver (7440-22-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Epoxy phenol novolac resin (9003-36-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

ADR	ADR IMDG IATA ADN		RID	
14.1. UN number or ID n	umber			
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping	g name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver, Epoxy Phenol Novolac)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver, Epoxy Phenol Novolac)	Environmentally hazardous substance, liquid, n.o.s. (Silver, Epoxy Phenol Novolac)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver, Epoxy Phenol Novolac)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver, Epoxy Phenol Novolac)
Transport document descri	ption	· · · ·		
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver, Epoxy Phenol Novolac), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver, Epoxy Phenol Novolac), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Silver, Epoxy Phenol Novolac), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver, Epoxy Phenol Novolac), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver, Epoxy Phenol Novolac), 9, III

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ADR	IMDG	ΙΑΤΑ	ADN	RID
14.3. Transport hazard o	class(es)			
9	9	9	9	9
14.4. Packing group	1			I
III		III	III	
14.5. Environmental haz	zards		I	I
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information	on available	I		
14.6. Special precaution	s for user			
Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Special packing provisions (A Mixed packing provisions (ADR) Ortable tank and bulk contai Portable tank and bulk contai Portable tank and bulk contai (ADR) Tank code (ADR) Vehicle for tank carriage Transport category (ADR) Special provisions for carriag. Special provisions for carriag. and handling (ADR) Hazard identification number Orange plates	: 5I : E1 : POD DR) : PP DR) : MF ner instructions (ADR) : T4 ner special provisions : TP : LG : AT : 3 e - Packages (ADR) : V12 e - Loading, unloading : CV (Kemler No.) : 90	4, 335, 375, 601 01, IBC03, LP01, R001 1 19 1, TP29 BV		
Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) Special packing provisions (IMD IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG)	: 5 L : E1 : LP MDG) : PP OG) : IBC : T4	01, P001 1 203 1, TP29		

: E1

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PCA Limited quantities (IATA)	:	Y964
PCA limited quantity max net quantity (IATA)	:	30kgG
PCA packing instructions (IATA)	:	964
PCA max net quantity (IATA)	:	450L
CAO packing instructions (IATA)	:	964
CAO max net quantity (IATA)	:	450L
Special provisions (IATA)	:	A97, A158, A197, A215
ERG code (IATA)	:	9L
Inland waterway transport		
Classification code (ADN)	:	M6
Special provisions (ADN)	:	274, 335, 375, 601
Limited quantities (ADN)	:	5 L
Excepted quantities (ADN)	:	E1
Carriage permitted (ADN)	:	Т
Equipment required (ADN)	:	PP
Number of blue cones/lights (ADN)	:	0
Rail transport		
Classification code (RID)	:	M6
Special provisions (RID)	:	274, 335, 375, 601
Limited quantities (RID)	:	5L
Excepted quantities (RID)	:	E1
Packing instructions (RID)	:	P001, IBC03, LP01, R001
Special packing provisions (RID)	:	PP1
Mixed packing provisions (RID)	:	MP19
Portable tank and bulk container instructions (RID)	:	T4
Portable tank and bulk container special provisions	:	TP1, TP29
(RID) Tank addas far BID tanka (BID)		
Tank codes for RID tanks (RID)	:	LGBV 3
Transport category (RID)	÷	S W12
Special provisions for carriage – Packages (RID) Special provisions for carriage - Loading, unloading		CW12, CW31
and handling (RID)	•	00013, 00031
Colis express (express parcels) (RID)	:	CE8
Hazard identification number (RID)	:	90

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

15.1.2. National regulations

Gormany

: Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment
(JArbSchG)
: WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)
: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: C	Other information		
Abbreviations a	Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
ATE	Acute Toxicity Estimate		
BCF	Bioconcentration factor		
BLV	Biological limit value		
BOD	Biochemical oxygen demand (BOD)		
COD	Chemical oxygen demand (COD)		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
EC-No.	European Community number		
EC50	Median effective concentration		
EN	European Standard		
IARC	International Agency for Research on Cancer		
IATA	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		
LD50	Median lethal dose		
LOAEL	Lowest Observed Adverse Effect Level		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
OECD	Organisation for Economic Co-operation and Development		
OEL	Occupational Exposure Limit		
PBT	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
SDS	Safety Data Sheet		
STP	Sewage treatment plant		
ThOD	Theoretical oxygen demand (ThOD)		
TLM	Median Tolerance Limit		
VOC	Volatile Organic Compounds		
CAS-No.	Chemical Abstract Service number		

Not Otherwise Specified

Endocrine disrupting properties

Very Persistent and Very Bioaccumulative

N.O.S.

vPvB

ED

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Full text of H- and EUH-statements:		
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	

The classification complies with

: ATP 12

EpoTek - Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



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1.1. Product identifier	
Product form Product name	: Mixture : EPO-TEK® H20E PART B
1.2. Relevant identified uses of the s	ubstance or mixture and uses advised against
1.2.1. Relevant identified uses Use of the substance/mixture 1.2.2. Uses advised against	: Adhesives
Restrictions on use	: Not to be used for any purpose other than the one the product was designed for
1.3. Details of the supplier of the safe	ety data sheet
Epoxy Technology, Inc. 14 Fortune Drive 01821 Billerica, MA 01821 USA T 978-667-3805 - F 978-663-9782 <u>www.epotek.com</u>	
1.4. Emergency telephone number	
Emergency number	: VelocityEHS: +1 (800) 255-3924, +1 (813) 248-0585
SECTION 2: Hazards identification	n
2.1. Classification of the substance of	r mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]Acute toxicity (oral), Category 4H302Serious eye damage/eye irritation, Category 1H318Hazardous to the aquatic environment – Acute Hazard, Category 1H400Hazardous to the aquatic environment – Chronic Hazard, Category 1H410Full text of H- and EUH-statements: see section 16H410	
Adverse physicochemical, human health Harmful if swallowed. Causes serious eye da	and environmental effects mage. Very toxic to aquatic life with long lasting effects.
2.2. Label elements	

Signal word (CLP) Contains

Hazard statements (CLP)

Precautionary statements (CLP)

: Danger

GHS05

: Dihydro-2(3H)-furanone ; 4-Hydroxybutyric acid lactone, γ-Butyrolactone; 2-Ethyl-4-methyl-1H-imidazole-1-propanenitrile

GHS09

- : H302 Harmful if swallowed.
 - H318 Causes serious eye damage.

GHS07

- H410 Very toxic to aquatic life with long lasting effects.
- : P264 Wash hands, forearms and face thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing

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protection. P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

Other hazards which do not result in classification : Harmful dust may be released during cutting, milling or grinding process.

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component		
Silver (7440-22-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Dihydro-2(3H)-furanone ; 4-Hydroxybutyric acid lactone, γ-Butyrolactone (96-48-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Silver substance with a Community workplace exposure limit	CAS-No.: 7440-22-4 EC-No.: 231-131-3	≥ 60	Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)
Dihydro-2(3H)-furanone ; 4-Hydroxybutyric acid lactone, γ-Butyrolactone	CAS-No.: 96-48-0 EC-No.: 202-509-5	5 – 10	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 STOT SE 3, H336
2-Ethyl-4-methyl-1H-imidazole-1-propanenitrile	CAS-No.: 23996-25-0 EC-No.: 245-975-5	5 – 10	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335

Comments

Full text of H- and EUH-statements: see section 16

: Components not listed are either non-hazardous or are below reportable limits.

SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	: Call a poison center or a doctor if you feel unwell.		
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.		
First-aid measures after skin contact	: Wash skin with plenty of water.		
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.		
First-aid measures after ingestion	: Rinse mouth. Call a poison center or a doctor if you feel unwell.		

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4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects after eye contact	: Serious damage to eyes.	
4.3. Indication of any immediate media	cal attention and special treatment needed	
Treat symptomatically.		

SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.		
5.2. Special hazards arising from the subs	tance or mixture		
Hazardous decomposition products in case of fire : Toxic fumes may be released.			
5.3. Advice for firefighters			
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equip	ment and emergency procedures		
6.1.1. For non-emergency personnel Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for containment and cleaning up			
For containment Methods for cleaning up Other information	 Collect spillage. Take up liquid spill into absorbent material. Dispose of materials or solid residues at an authorized site. 		
6.4. Reference to other sections			

For further information refer to section 13.

SECTION 7: Handling and stor	age
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, in	ncluding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
7.3. Specific end use(s)	

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Silver (7440-22-4)			
EU - Indicative Occupational Exposure Limit (IOEL)			
OEL TWA 0,1 mg/m ³			
Germany - Occupational Exposure Limits (TRGS 900)			
Local name	Silber		
AGW (OEL TWA) [1]	0,1 mg/m³ (E)		
Peak exposure limitation factor	8(II)		
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich)		
Regulatory reference TRGS900			

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear suitable gloves resistant to chemical penetration. Neoprene or nitrile rubber gloves. Butyl-rubber protective gloves. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Refer to manufacturer's information. Gloves must be replaced after each use and whenever signs of wear or perforation appear

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8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Silver.
Odour	:	slight.
Odour threshold	:	Not available
Melting point	:	Not available
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Non flammable.
Explosive limits	:	Not available
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	Not available
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	Not available
Viscosity, kinematic	:	Not available
Solubility	:	Not available
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	Not available
Relative density	:	Not available
Relative vapour density at 20°C	:	Not available
Particle size	:	Not applicable
Particle size distribution	:	Not applicable
Particle shape	:	Not applicable
Particle aspect ratio	:	Not applicable
Particle aggregation state	:	Not applicable
Particle agglomeration state	:	Not applicable
Particle specific surface area	:	Not applicable
Particle dustiness	:	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information			
11.1. Information on hazard classes as define	d in Regulation (EC) No 1272/2008		
Acute toxicity (oral):Acute toxicity (dermal):Acute toxicity (inhalation):	Harmful if swallowed. Not classified Not classified		
EPO-TEK® H20E PART B			
ATE CLP (oral)	897,062 mg/kg bodyweight		
Silver (7440-22-4)			
LD50 oral rat	> 2000 mg/kg Source: ECHA		
LD50 oral	5000 mg/kg		
LD50 dermal rat	> 2000 mg/kg Source: ECHA		
LD50 dermal	2500 mg/kg		
LC50 Inhalation - Rat	> 5,16 mg/l air Animal: rat, Guideline: OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class Method)		
Dihydro-2(3H)-furanone ; 4-Hydroxybutyric a	cid lactone, γ-Butyrolactone (96-48-0)		
LD50 oral rat	1582 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 8 day(s))		
LD50 oral	800 mg/kg		
LD50 dermal	5600 mg/kg		
LC50 Inhalation - Rat	> 5,1 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (mixture of vapour and aerosol), 14 day(s))		
LC50 Inhalation - Rat (Dust/Mist)	5,1 mg/l/4h		
LC50 Inhalation - Rat (Vapours)	> 2,68 mg/l Source: International Uniform ChemicaL Information Database		
Skin corrosion/irritation : Serious eye damage/irritation : Respiratory or skin sensitisation : Germ cell mutagenicity : Carcinogenicity :	Not classified Causes serious eye damage. Not classified Not classified Not classified		
Dihydro-2(3H)-furanone ; 4-Hydroxybutyric a			
IARC group	3 - Not classifiable		

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Dihydro-2(3H)-furanone ; 4-Hydroxybutyric a	2(3H)-furanone ; 4-Hydroxybutyric acid lactone, γ-Butyrolactone (96-48-0)	
NOAEL (chronic, oral, animal/male, 2 years)	225 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: other:NTP Protocol, Remarks on results: other:Effect type: carcinogenicity (migrated information)	
NOAEL (chronic, oral, animal/female, 2 years)	450 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:NTP Protocol, Remarks on results: other:Effect type: carcinogenicity (migrated information)	
Reproductive toxicity :	Not classified	
STOT-single exposure :	Not classified	
Dihydro-2(3H)-furanone ; 4-Hydroxybutyric acid lactone, γ-Butyrolactone (96-48-0)		
STOT-single exposure	May cause drowsiness or dizziness.	
2-Ethyl-4-methyl-1H-imidazole-1-propanenitrile (23996-25-0)		
STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure : Not classified		
Silver (7440-22-4)		
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity Study in Rodents)	
Aspiration hazard :	Not classified	
44.0 Information on other boronda		

11.2. Information on other hazards

SECTION 12: Ecological information	
12.1. Toxicity	
Hazardous to the aquatic environment, short-term : (acute)	Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
Silver (7440-22-4)	
LC50 - Fish [1]	4,7 μg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	89,4 μg/l Test organisms (species): Pimephales promelas
ErC50 algae	0,285 μg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
Dihydro-2(3H)-furanone ; 4-Hydroxybutyric ac	id lactone, γ-Butyrolactone (96-48-0)
LC50 - Fish [1]	56 mg/l (Equivalent or similar to OECD 203, 96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	> 500 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	> 1000 mg/l (DIN 38412-9, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Estimated value)
12.2. Persistence and degradability	
Silver (7440-22-4)	
Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.

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Silver (7440-22-4)	
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
Dihydro-2(3H)-furanone ; 4-Hydroxybutyric acid lactone, γ-Butyrolactone (96-48-0)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
ThOD	1,67 g O ₂ /g substance

12.3. Bioaccumulative potential

Silver (7440-22-4)	
BCF - Fish [1]	70 (30 day(s), Cyprinus carpio, Fresh water, Experimental value, Fresh weight)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Dihydro-2(3H)-furanone ; 4-Hydroxybutyric acid lactone, γ-Butyrolactone (96-48-0)	
BCF - Other aquatic organisms [1]	3,162 l/kg (BCFBAF v3.00, Calculated value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	-0,566 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

Silver (7440-22-4)	(7440-22-4)	
Ecology - soil	No (test)data on mobility of the substance available.	
Dihydro-2(3H)-furanone ; 4-Hydroxybutyric acid lactone, γ-Butyrolactone (96-48-0)		
Surface tension	No data available (test not performed)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0,544 – 0,811 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Highly mobile in soil.	

12.5. Results of PBT and vPvB assessment

Component	
Silver (7440-22-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Dihydro-2(3H)-furanone ; 4-Hydroxybutyric acid Iactone, γ-Butyrolactone (96-48-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

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n accordance with ADR / IMI				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID n	number			
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shippin	g name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver)	Environmentally hazardous substance, liquid, n.o.s. (Silver)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver)
Transport document descr	ription			
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Silver), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver), 9, III
14.3. Transport hazard o	class(es)			
9	9	9	9	9
14.4. Packing group				
III	III	III	III	Ш
14.5. Environmental haz	zards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information	on available			

Overland transport Classification code (ADR) : M6 Special provisions (ADR) : 274, 335, 375, 601 Limited quantities (ADR) : 51 : E1 Excepted quantities (ADR) Packing instructions (ADR) : P001, IBC03, LP01, R001 Special packing provisions (ADR) : PP1 : MP19 Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) : T4 Portable tank and bulk container special provisions : TP1, TP29 (ADR) Tank code (ADR) : LGBV Vehicle for tank carriage : AT Transport category (ADR) : 3 Special provisions for carriage - Packages (ADR) : V12 Special provisions for carriage - Loading, unloading : CV13 and handling (ADR) Hazard identification number (Kemler No.) : 90

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according to the REACH Regulation (EC) 1907/2006 amende	ed by Regulation (EU) 2020/878
Orange plates	90 3082
Tunnel restriction code (ADR)	: -
Transport by sea	
Special provisions (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001 : PP1
Special packing provisions (IMDG) IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A
3 3 3 (-)	
Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provisions (IATA)	: A97, A158, A197, A215
ERG code (IATA)	: 9L
Inland waterway transport	
Classification code (ADN)	: M6
Special provisions (ADN)	: 274, 335, 375, 601
Limited quantities (ADN)	: 5L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: M6
Special provisions (RID)	: 274, 335, 375, 601
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19 · T4
Portable tank and bulk container instructions (RID)	: TP1, TP29
Portable tank and bulk container special provisions	. IF1, IF29
(RID) Tank codes for RID tanks (RID)	: LGBV
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Special provisions for carriage - Loading, unloading	: CW13, CW31
and handling (RID)	-,
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 90
14.7 Maritime transport in bulk according to	IMO instrumente
	THE THEFT AT A THE THEFT AT A THE

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

15.1.2. National regulations

Germany

Employment restrictions Water hazard class (WGK)	 Observe restrictions according Act on the Protection of Working Mothers (MuSchG) Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG) WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
15.2. Chemical safety assessment	

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	

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Abbreviations and acronyms:	
OEL	Occupational Exposure Limit
РВТ	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

The classification complies with

: ATP 12

EpoTek - Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.