

Article		172 A0000	epple 07172		
Print o Versio		6.2023	Revision date 26. 26.06.2023	06.2023	EN Page 1 / 10
SEC	TION 1: Identific	ation of th	e substance/mixt	ure and of the comp	anv/undertaking
1.1.					
	Article No. (manu Trade name/desig	facturer/sup	olier):	4 07172 A0000 epple 07172 Cast resin Component A UFI: PF60-40HV-900)H-FMTH
1.2.	Relevant identifi	ed uses of t	he substance or m	ixture and uses advise	ed against
	-	casting elect	ronic and other com	ponents.	
1.3.			e safety data sheet	oor/dictributor)	
	E. Epple & Co. G	-	orter/downstream u	iser/distributor)	
	Hertzstr. 8 71083 Herrenber	g		Telephone: +49 7032 Telefax: +49 7032 / 9 www.epple-chemie.d	0771-60
	Department resp	oonsible for	information:		
	laboratory E-mail (competer	nt person)		labor@epple-chemie	de
1.4.	Emergency telep		er	C II	
	Information cente	r against poi	soning Bonn	+49 (0) 228 / 19 240	(Advice in German)
SEC	TION 2: Hazards	s identificat	tion		
2.1.	Classification of				
		-	Regulation (EC) No		
	Skin Irrit. 2 / H31		Skin corrosion/irrit	o regulation (EC) No 12	Causes skin irritation.
	Skin Sens. 1 / H3	17	Respiratory or skir	n sensitisation	May cause an allergic skin reaction.
2.2.	Aquatic Chronic 2	2 / H411	Hazardous to the a	aquatic environment	Toxic to aquatic life with long lasting effects.
2.2.		assified and I	abelled according to	EC directives or corres	ponding national laws.
	-		lation (EC) No. 127		5
	Hazard pictogra				
			Warning		
	Hazard statemen H315 H317 H411	Causes May ca	s skin irritation. use an allergic skin i o aquatic life with lon		
	Precautionary st				
	P260 P273 P280 P302 + P352 P333 + P313 P501	Avoid re Wear p IF ON S If skin i	rritation or rash occu	nment. nty of soap and water. ırs: Get medical advice/a iner to a certified waste	
	Hazard compon	Reactic 2,2'-[me 2-({2-[4 Methyl	on mass of 2,2'-[meth ethylenebis(4,1-pher -(oxiran-2-ylmethoxy toluene-4-sulfonate	nylenebis(2,1-phenylene nyleneoxymethylene)]bis /)benzyl]phenoxy}methy	
	Supplemental ha			s. May produce an allerg	lic reaction
2.3.	Other hazards	Contail			*



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No information available.

This product contains respirable quartz. In the present physical form (liquid/pasty) and during the processing of the product, no dust is generated, so inhalation is not to be expected. Classification and labeling with STOT RE 1 / H372 is therefore not necessary. Depending on handling and use (e.g. grinding), the formation of airborne respirable crystalline silica is possible. Prolonged and/or intensive inhalation of respirable crystalline silicon dioxide can cause dust lung disease (silicosis).

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description

EP-resin on bisphenol A-EP base filled

Hazardous ingredients

EC No.	REACH No.	
CAS No.	Designation	weight-%
Index No.	classification: // Remark	
701-263-0	01-2119454392-40	
	Reaction mass of	24,9 - 49,9
	2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and	
	2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and	
	2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane	
	Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411	
238-878-4		
14808-60-7	quartz	24,9 - 49,9
	STOT RE 1 H372	
202-859-9	01-2119492630-38	
100-51-6	benzyl alcohol	2,4 - 9,9
603-057-00-5	Acute Tox. 4 H332 / Acute Tox. 4 H302	
	Acute toxicity estimate (ATE): ATE (oral): 1230 mg/kg bw / ATE (inhalation, vapour): 4,17 mg/L	
201-283-5	01-2120211468-59	
80-48-8	Methyl toluene-4-sulfonate	2,4 - 9,9
	Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Skin Sens. 1	
	H317 / STOT SE 3 H335	
	Acute toxicity estimate (ATE): ATE (oral): 341 mg/kg bw	

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice.



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4.3. **Indication of any immediate medical attention and special treatment needed** First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Unsuitable extinguishing media

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Do not allow water used to extinguish fire to enter drains, ground or waterways. Cool closed containers that are near the source of the fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid contact with skin, eyes and clothes. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Follow the legal protection and safety regulations.

Further information

Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

not applicable



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DNEL:

benzyl alcohol

Index No. 603-057-00-5 / EC No. 202-859-9 / CAS No. 100-51-6

DNEL acute dermal, short-term (systemic), Workers: 47 mg/kg bw/day

DNEL long-term dermal (systemic), Workers: 9,5 mg/kg

DNEL acute inhalative (systemic), Workers: 450 mg/m³

DNEL long-term inhalative (systemic), Workers: 90 mg/m³

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and

2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane EC No. 701-263-0

DNEL long-term dermal (systemic), Workers: 104,15 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 29,39 mg/m³

PNEC:

benzyl alcohol

Index No. 603-057-00-5 / EC No. 202-859-9 / CAS No. 100-51-6

PNEC aquatic, freshwater: 1 mg/L

PNEC aquatic, marine water: 0,1 mg/L

PNEC aquatic, intermittent release: 2,3 mg/L

PNEC sediment, freshwater: 5,27 mg/kg

PNEC sediment, marine water: 0,527 mg/kg

PNEC, soil: 0,456 mg/kg

PNEC sewage treatment plant (STP): 39 mg/L

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and

2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane EC No. 701-263-0

PNEC aquatic, freshwater: 0,003 mg/L

PNEC aquatic, marine water: 0,0003 mg/L

PNEC aquatic, intermittent release: 0,025 mg/L

PNEC sediment, freshwater: 0,294 mg/kg

PNEC sediment, marine water: 0,0294 mg/kg

PNEC, soil: 0,237 mg/kg d.w.

PNEC sewage treatment plant (STP): 10 mg/L

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Personal protection equipment

Respiratory protection

If the workplace limit values (AGW) are exceeded, a suitable breathing apparatus must be worn. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Use filter / combination filter according to EN 14387.

Suitable respiratory protection apparatus: ABEK-P2

Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection

Wear eye glasses with side protection according to EN 166.

Body protection

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls



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Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

	Diversional address	
	Physical state: Appearance:	Liquid Liquid
	Colour:	grey
	Odour:	characteristic
	Odour threshold:	not applicable
	Melting point/freezing point:	-21 °C
	Menting point/neezing point.	Source: Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane
	Initial boiling point and boiling range:	not applicable
	Flammability:	not applicable
	Lower and upper explosion limit:	
	Lower explosion limit:	1,22 Vol-%
	Upper explosion limit:	Source: benzyl alcohol 13 Vol-%
	opper explosion mint.	Source: benzyl alcohol
	Flash point:	not applicable
	Auto-ignition temperature:	not applicable
	Decomposition temperature:	not applicable
	pH at 20 °C:	not relevant
	Cinematic viscosity (40°C):	59602,65 mm²/s
	Viscosity at 20 °C:	74 - 110 Pa*s
	Solubility(ies):	
	Water solubility at 20 °C:	insoluble
	Partition coefficient: n-octanol/water:	see section 12
	Vapour pressure at 20 °C:	0,027 mbar
		Source: benzyl alcohol
	Density and/or relative density: Density at 20 °C:	1,51 g/cm³
	Relative vapour density:	not applicable
	particle characteristics:	not applicable
9.2.	Other information	
	Solvent separation test:	< 3 weight-% (ADR/RID)
SEC	TION 10: Stability and reactivity	

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. Incompatible materials

not applicable



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10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

benzyl alcohol oral, LD50, Rat: 1230 mg/kg dermal, LD50, Rabbit: 2000 mg/kg inhalative (Gases), LC50, Rat: > 4,178 ppmV (4 h)

Methyl toluene-4-sulfonate oral, LD50, Rat: 341 mg/kg

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and

2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and

2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane

oral, LD50, Rat: > 5000 mg/kg dermal, LD50, Rat: > 2000 mg/kg

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes skin irritation.

benzyl alcohol eyes, Rabbit: Evaluation Irritating to eyes. Method: OECD 405 Skin, Rabbit: Evaluation no skin irritation Method: OECD 404

Methyl toluene-4-sulfonate Skin, Rabbit (24 h): Evaluation strongly irritant. eyes, Rabbit (24 h): Evaluation mild irritant.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

benzyl alcohol Skin, Guinea pig: ; Evaluation not sensitising. Method: OECD 406

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Based on available data, the classification criteria are not met.

STOT-single exposure; 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.

Practical experience/human evidence

Based on the properties of the epoxy constituents and considering toxicological data on similar preparations, this preparation may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may result in irritations and sensitizations, possibly due to a cross-over sensitization with other epoxy compounds. Skin contact with the preparation and exposure to spray mist and vapour should be avoided.

Overall assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Remark

There is no information available on the preparation itself .

11.2. Information on other hazards

Endocrine disrupting properties No information available.



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SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP] Do not allow to enter into surface water or drains.

12.1. Toxicity

benzyl alcohol
Fish toxicity, LC50, Pimephales promelas (fathead minnow): 460 mg/L (96 h)
Method: EPA 600/3-76/097
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 230 mg/L (48 h)
Method: OECD 202
Daphnia toxicity, LC50, Daphnia magna (Big water flea): 360 mg/L (48 h)
Algae toxicity, EC50, Scenedesmus quadricauda: 640 mg/L (96 h)
Algae toxicity, EC50, Pseudokirchneriella subcapitata: 770 mg/L (72 h)
Method: OECD 201
Bacteria toxicity, EC10, Pseudomonas putida: 658 mg/L (16 h)

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and

2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane Fish toxicity, LC50, fish: 2,54 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 2,55 mg/L $\,$ (48 h) Algae toxicity, EC50, Algae: 1,8 mg/L $\,$ (72 h)

Long-term Ecotoxicity

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

benzyl alcohol

Biodegradation: 92 - 96 % (28 d); Evaluation Readily biodegradable Method: OECD 301C Biodegradation: 95 - 97 % (21 d); Evaluation Readily biodegradable Method: OECD 301A

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and

2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane Biodegradation: 16 % (28 d); Evaluation Not readily biodegradable Method: OECD 301B

12.3. Bioaccumulative potential

benzyl alcohol

Partition coefficient: n-octanol/water: 1,05

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and

2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane Partition coefficient: n-octanol/water: 3,3

Bioconcentration factor (BCF)

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane Bioconcentration factor (BCF): 150

12.4. Mobility in soil

Toxicological data are not available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product Recommendation



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Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.Observe in addition any national regulations!

List of proposed waste codes/waste designations in accordance with EWC 080409* Waste adhesives and sealants containing organic solvents or other dangerous substances *Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Appropriate disposal / Package

Dispose of packaging and contaminated filters at a offical hazardous waste incinerator facility. Recommendation: Waste codes / waste designations according to EWC / AVV: 15 01 10*

Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1. UN number or ID number UN 3082 14.2. UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. Land transport (ADR/RID): (epoxy resin) Sea transport (IMDG): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin) Air transport (ICAO-TI / IATA-DGR): Environmentally hazardous substance, liquid, n.o.s. (epoxy resin) 14.3. Transport hazard class(es) 9 14.4. Packing group Ш 14.5. Environmental hazards Land transport (ADR/RID) DANGEROUS FOR THE ENVIRONMENT Marine pollutant p / epoxy resin 14.6. Special precautions for user Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage. Advices on safe handling: see parts 6 - 8 **Further information** Land transport (ADR/RID) Tunnel restriction code **KEIN GUT DER KLASSE 9** in packages <= 5 litres Sea transport (IMDG) F-A, S-F EmS-No in packages <= 5 litres NOT RESTRICTED 2.10.2.7 Air transport (ICAO-TI / IATA-DGR) in packages <= 5 litres NOT RESTRICTED 14.7. Maritime transport in bulk according to IMO instruments No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC-value (in g/L): 85

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National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

For professional use only. Product is not intended for consumer use.

Substance/product listed in the following inventories:

AICS no informtion DSL no information EHS no information **IECSC** no information **KECI** no information MITI no information NZLoC no information PICCS no information TCSI no information TSCA no information

15.2. Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

EC No. CAS No.	Designation			REACH No.
701-263-0	2,2'-[methylenebis(4,1-pheny	mass leneoxymethylene)]bis(oxirane) leneoxymethylene)]bis(oxirane) benzyl]phenoxy}methyl)oxirane	of and and	01-2119454392-40
202-859-9 100-51-6	benzyl alcohol			01-2119492630-38
201-283-5 80-48-8	Methyl toluene-4-sulfonate			01-2120211468-59

SECTION 16: Other information

Full text of classification	ation in section 3:			
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.		
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.		
Aquatic Chronic 2 / H	411 Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.		
STOT RE 1 / H372	STOT-repeated exposure	Causes damage to organs (or state all organs affected, if known) through prolonged or		
		repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).		
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.		
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.		
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.		
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.		
Classification proce	dure			
-	ures and used evaluation method according to regu	lation (EC) No 1272/2008 [CLP]		
Skin Irrit. 2	Skin corrosion/irritation	Calculation method.		
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.		
Aquatic Chronic 2	Hazardous to the aquatic environment	Calculation method.		
Abbreviations and a	cronyms			
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road			
OEL	Occupational Exposure Limit Value			
BLV	Biological Limit Value			



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CAS	Chemi	cal Abstracts Service		
CLP	Classif	Classification, Labelling and Packaging		
CMR		ogenic, Mutagenic and Reprotoxic		
DIN		German Institute for Standardization / German industrial standard		
DNEL	Derive	Derived No-Effect Level		
EAKV	Europe	ean Waste Catalogue Directive		
EC		ve Concentration		
EC	Europe	ean Community		
EN	Europe	European Standard		
IATA-DGR	Interna	International Air Transport Association – Dangerous Goods Regulations		
IBC Code	Interna	tional Code for the Construction an	nd Equipment of Ships carrying Dangerous Chemicals in Bulk	
ICAO-TI	Interna Goods	8	Technical Instructions for the Safe Transport of Dangerous	
IMDG Code		tional Maritime Code for Dangerous	us Goods	
ISO		tional Organization for Standardiza		
LC		Concentration		
LD	Lethal	Dose		
MARPOL	Maritin	ne Pollution: The International Conv	vention for the Prevention of Pollution from Ships	
OECD	Organi	sation for Economic Cooperation a	and Development	
PBT		ent, bioaccumulative, toxic		
PNEC	Predic	ted No Effect Concentration		
REACH	Regist	ration, Evaluation, Authorisation and	nd Restriction of Chemicals	
RID	Regula	ations concerning the International (Carriage of Dangerous Goods by Rail	
UN	United	Nations		
VOC	Volatile	e Organic Compounds		
vPvB	very pe	ersistent and very bioaccumulative		
Abbreviations and acronyms				

Abbreviations and acronyms

n.a. = not applicable

n.b. = not determined

Further information

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

* Data changed compared with the previous version