

schweizerischer verband des dentalhandels associations suisse du commerce dentaire SVDH, Moosstrasse 2, 3073 Gümligen Tel. 031 952 76 75 / Fax 031 952 76 83 http://www.svdh.ch/sdb

safety data sheet

to product

Melag MEtherm 56

1. Identification of the substance / preparation and company

Emergency number:

Tox Info Suisse, Freiestrasse 16, 8032 Zürich; Tox-Info Suisse: 145 (24h-operation); info@toxinfo.ch; **In case of emergency: Tel. 145**; (abroad: +41 44 251 51 51); information: +41 44 251 66 66

Company name:

	abc dental ag	Gaswerkstrasse 6, 8952 Schlieren Tel. 044 755 51 00, Fax 044 755 51 01
C DOR A HENRY SCHEIN" COMPANY	Condor Dental Research CO Sàrl	Ch. des Cibleries 2, CP 300, 1896 Vouvry Tel. 024 482 61 61, Fax 024 482 61 69
curaden dentaldepot	Curaden AG Dentaldepot	Riedstrasse 12, 8953 Dietikon Tel. 041 319 45 00, Fax 041 319 45 90
dema dent	dema dent AG	Furtbachstrasse 16, 8107 Buchs Tel. 044 838 65 65, Fax 044 838 65 66
Flexdental	Flexdental Services SA	Route de la Corniche 1, 1066 Epalinges Tel. 0848 336 825, Fax 021 907 67 02
	Jordi Röntgentechnik AG	Dammstrasse 70, 4142 Münchenstein Tel. 061 417 93 93, Fax 061 417 93 94
KALADENT	Kaladent AG	Schachenstrasse 2, 9016 St. Gallen Tel. 071 282 80 80, Fax 071 282 80 81
LOMETRAL Die Zahnarztausstatter.	Lometral AG	Binzenholzstrasse 20, 5704 Egliswil Tel. 062 775 05 05, Fax 062 775 33 07
	Novadent AG	Sägereistrasse 17, 8152 Glattbrugg Tel. 044 880 20 20, Fax 044 811 04 40
Smart Dentist Ich kann auch sol	Smart Dentist AG	Verenastrasse 4b, 8832 Wollerau Tel. 044 726 20 20, Fax 044 726 20 25



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

1.1 Product identifier Trade name Unique Formula Identifier (UFI)	: MEtherm 56 : 9P50-K0CS-X00H-G39C
1.2 Relevant identified uses of	the substance or mixture and uses advised against
Use of the Sub- stance/Mixture	: Decalcification agent
Recommended restrictions on use	: Restricted to professional users.
1.3 Details of the supplier of the	e safety data sheet
Supplier	: MELAG Medizintechnik GmbH & Co. KG Geneststraße 6-10
	10829 Berlin Germany Telephone: +4930-7579110 Telefax: +4930-757901199 MEtherm-OEM@melag.de www.melag.com
Producer	: Schülke & Mayr GmbH Robert-Koch-Str. 2
	22851 Norderstedt Germany Telephone: +49 (0)40/ 52100-0 Telefax: +49 (0)40/ 52100318 mail@schuelke.com www.schuelke.com
E-mail address of person responsible for the SDS/Contact person	: Safety Coordinator: +49(0)30 /335 055 33
1.4 Emergency telephone numl	ber
Emergency telephone num- ber	: UK Poisons Emergency number: 0870 600 6266

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)			
Corrosive to metals, Category 1	H290: May be corrosive to metals.		
Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.		

according to Regulation (EC) No. 1907/2006



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Serious eye damage, Category 1

H318: Causes serious eye damage.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) Hazard pictograms Signal word Danger 1 Hazard Statements May be corrosive to metals. H290 1 Causes severe skin burns and eye damage. H314 **Precautionary Statements Prevention:** 2 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. **Response:** P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

phosphoric acid

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

No hazards to be specially mentioned.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Solution of the following substances with harmless additives.

Components

Chemical name CAS- EC-N Index		Concentration (% w/w)
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	Registration number		
phosphoric acid	7664-38-2 231-633-2	Met. Corr. 1; H290	>= 50 - < 70
	015-011-00-6	Skin Corr. 1B; H314 Eye Dam. 1; H318	
	01-2119485924-24-		
For evolution of obbrovi	XXXX		

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measu	5	
General advice	Take off all	contaminated clothing immediately.
If inhaled	If symptom	s persist, call a physician.
In case of skin contact	Wash off in minutes. Consult a p	nmediately with plenty of water for at least 15 hysician.
In case of eye contact	diately with 15 minutes	eye contact, remove contact lens and rinse imme- plenty of water, also under the eyelids, for at least lical attention.
If swallowed	Give small	h with water. amounts of water to drink. hysician if necessary.
4.2 Most important symptoms an	ffects, both	acute and delayed
Symptoms	corrosive e	ffects
4.3 Indication of any immediate r	lical attentio	on and special treatment needed
Treatment		st advice physicians should contact the Poisons
SECTION 5: Firefighting meas	es	
5.1 Extinguishing media		
Suitable extinguishing media		

Suitable extinguishing media	:	Dry powder Foam Water spray jet Carbon dioxide (CO2)
Unsuitable extinguishing media	:	Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire- : Gives off hydrogen by reaction with metals.



Version Revision Date: Date of last issue: 10.03.2020 02.01 22.03.2021 Date of first issue: 08.03.2017 fighting Combustion produces caustic fumes. Hazardous combustion products : Carbon dioxide (CO2) Nitrogen oxides (NOx) 5.3 Advice for firefighters Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

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ler monghtere		
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures				
Personal precautions	:	Use personal protective equipment. Avoid contact with skin and eyes.		
6.2 Environmental precautions				
Environmental precautions	:	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.		

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Wipe up with absorbent material (e.g. cloth, fleece).
		Soak up with inert absorbent material (e.g. sand, silica gel,
		acid binder, universal binder, sawdust).

6.4 Reference to other sections

see Section 8 + 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Wear personal protective equipment. Avoid contact with skin, eyes and clothing.
Advice on protection against fire and explosion	:	The product is not flammable. Gives off hydrogen by reaction with metals.
Hygiene measures	:	Keep away from food and drink.
7.2 Conditions for safe storage,	inc	luding any incompatibilities
Requirements for storage areas and containers	:	Store at room temperature in the original container.
Further information on stor- age conditions	:	Keep container tightly closed. Keep away from heat. Recom- mended storage temperature: 5 - 25°C
Advice on common storage	:	Do not store together with alkalis.
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7.3 Specific end use(s)

Specific use(s) : none

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		
phosphoric acid	7664-38-2	TWA	1 mg/m3	2000/39/EC
	Further inform	nation: Indicative		
		STEL	2 mg/m3	2000/39/EC
	Further inform	nation: Indicative		
		TWA	1 mg/m3	GB EH40
		STEL	2 mg/m3	GB EH40

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef-	Value
			fects	
phosphoric acid	Workers	Inhalation	Long-term local ef- fects	2 mg/m3
	Workers	Inhalation	Long-term local ef- fects	1 mg/m3
	Workers	Inhalation	Long-term systemic effects	10.7 mg/m3

8.2 Exposure controls

Engineering measures

Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment Eye protection	nt : Face-shield
Hand protection Directive	: The selected protective gloves have to satisfy the specifica- tions of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
Remarks	: Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0.11 mm) made by KCL or gloves from other manufacturers offering the same protection. Pro- longed contact: Nitrile rubber gloves e.g. Camatril (>480 Min., layer thickness: 0,40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm) made by KCL or gloves from other manufacturers offering the same protec- tion.
Skin and body protection	: Work uniform or laboratory coat. Chemical resistant apron

according to Regulation (EC) No. 1907/2006



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Respiratory p	rotection	:	No personal respiratory protective equipment normally re- quired.	
Protective me	easures	:	Avoid contact with skin and eyes.	

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	colourless
Odour	:	nearly odourless
Odour Threshold	:	not determined
рН	:	1.2 (20 °C) Concentration: 100 %
Melting point/freezing point	:	< -5 °C
Decomposition temperature		No data available
Boiling point/boiling range	:	ca. 100 °C
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas) Upper explosion limit / Upper flammability limit		
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	ca. 25 hPa (20 °C)
Vapour density	:	No data available
Relative density	:	ca. 1.43 g/cm3 (20 °C)
Solubility(ies) Water solubility	:	completely soluble (20 °C)
Partition coefficient: n- octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
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			competence in hygiene
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Oxidizing	properties	:	No data available
9.2 Other info	rmation		
Metal corr	rosion rate	:	> 6.25 mm/a Corrosive to metals Aluminium and Mild steel
SECTION 10	: Stability and rea	acti	vity
10.1 Reactivit	у		
No dange	rous reaction knowr	n une	der conditions of normal use.
10.2 Chemica	•		
The produ	uct is chemically stal	ole.	
	ty of hazardous rea	actio	
Hazardou	s reactions	÷	Reaction with alkalis(caustic liquors).
10.4 Condition	ns to avoid		
Condition	s to avoid	:	Protect from frost, heat and sunlight.
10.5 Incompa	tible materials		
Materials	to avoid	:	Incompatible with strong bases and oxidizing agents.
	us decomposition sonably foreseeable		Jucts
-	-		
SECTION 11	: Toxicological ir	ntor	mation
11.1 Informati	ion on toxicologica	ıl eff	fects
Acute to	cicity		
Compone	ents:		
phospho	ric acid:		
Acute ora	I toxicity	:	LD50: 2,600 mg/kg Method: Expert judgement
Acute der	mal toxicity	:	LD50 (Rabbit): 2,740 mg/kg
Skin corr	osion/irritation		
Product:			
Remarks		:	Causes severe skin burns and eye damage.

Components:

phosphoric acid:

Species

according to Regulation (EC) No. 1907/2006



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Method Result		:	OECD Test Guideline 404 Corrosive after 3 minutes to 1 hour of exposure
Serious eye da	amage/eye irrita	ati	on
Product:			
Remarks		:	Causes serious eye damage.
Components:			
phosphoric ac	id:		
Species		:	Rabbit
Result		:	Irreversible effects on the eye
	skin sensitisat	tio	n
Components:			
phosphoric ac	id:		
Result Remarks		:	Does not cause skin sensitisation. largely based on human evidence
-			
Germ cell mut	agenicity		
Components:			
phosphoric ac			
Genotoxicity in	vitro	:	Test Type: Microbial mutagenesis assay (Ames test) Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
Germ cell muta sessment	genicity- As-	:	In vitro tests did not show mutagenic effects
Carcinogenici	ty		
Components:			
phosphoric ac	id:		
Carcinogenicity ment		:	No data available
Reproductive	toxicity		
Components:			
phosphoric ac	id:		
Effects on fertili		:	Species: Rat, male and female Application Route: Oral General Toxicity F1: NOAEL: >= 500 mg/kg bw/day

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ersion .01	Revision Date: 22.03.2021		Date of last issue: 10.03.2020 Date of first issue: 08.03.2017
Effects on f ment	foetal develop-	:	Species: Rat Application Route: Oral General Toxicity Maternal: NOAEL: >= 410 mg/kg bw/da Developmental Toxicity: NOAEL F1: >= 410 mg/kg bw/da Method: OECD Test Guideline 414 Result: Animal testing did not show any effects on fertility
Reproducti sessment	ve toxicity - As-	:	Animal testing did not show any effects on fertility. Animal testing did not show any effects on foetal develop ment.
STOT - sin	gle exposure		
Componer	<u>nts:</u>		
phosphori Assessmer		:	The substance or mixture is not classified as specific targorigan toxicant, single exposure.
STOT - rep	peated exposure		
Componer	<u>nts:</u>		
phosphori	c acid:		
Assessmer	nt	:	The substance or mixture is not classified as specific tar organ toxicant, repeated exposure.
Repeated	dose toxicity		
Componer	<u>nts:</u>		
phosphori	c acid:		
Species NOAEL		:	Rat
Application	Route	÷	250 mg/kg Oral
Exposure ti Method		:	90-day OECD Test Guideline 422
Mounou		•	
Aspiration No data av	-		
Further inf	ormation		
Product:			
Remarks		:	No data is available on the product itself.

12.1 Toxicity

Components:

phosphoric acid:

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Toxicity to f	ïsh	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 3 mg/l Exposure time: 96 h
Toxicity to a aquatic inve		:	(Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
Toxicity to a plants	algae/aquatic	:	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Ecotoxicol	ogy Assessment		
Chronic aq	uatic toxicity	:	This product has no known ecotoxicological effects.
12.2 Persistend	e and degradabili	ity	
<u>Componer</u>	<u>nts:</u>		
phosphori	c acid:		
Biodegrada	bility	:	Remarks: The methods for determining biodegradability are not applicable to inorganic substances.
12.3 Bioaccum	ulative potential		
<u>Componer</u>	<u>nts:</u>		
phosphori	c acid:		
Bioaccumu		:	Remarks: Not relevant
12.4 Mobility in	soil		
<u>Componer</u>	<u>nts:</u>		
phosphori	c acid:		
Mobility		:	Medium: Water Remarks: soluble
12.5 Results of	PBT and vPvB as	ses	ssment
Product:			
Assessmer	nt	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher
12.6 Other adve	erse effects		
Product:			
	ecological infor-	:	No data is available on the product itself.
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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	: Dispose of the product according to the defined EWC (European Waste Code) No.
Contaminated packaging	: Take empty packaging to the recycling plant.
Waste key for the unused product	: European waste catalog (EWC) 070601*
Waste key for the unused product(Group)	: Waste material of HZVA from fats, lubricants, soaps, deter- gents, disinfectants and personal protection products.

SECTION 14: Transport information

14.1 UN number

ADR	:	UN 1805
IMDG	:	UN 1805
ΙΑΤΑ	:	UN 1805
14.2 UN proper shipping name		
ADR	:	PHOSPHORIC ACID SOLUTION
IMDG	:	PHOSPHORIC ACID SOLUTION
ΙΑΤΑ	:	Phosphoric acid, solution
14.3 Transport hazard class(es)		
ADR		8
IMDG		-
	•	8
ΙΑΤΑ	:	8
14.4 Packing group		
ADR Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code	:	III C1 80 8 (E)
IMDG Packing group Labels EmS Code	:	III 8 F-A, S-B
IATA (Cargo) Packing instruction (cargo aircraft)	:	856
Packing instruction (LQ)	:	Y841
Packing group Labels	:	III Corrosive
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IATA (Passenger)

Packing instruction (passen-	:	852
ger aircraft)		
Packing instruction (LQ)	:	Y841
Packing group	:	III
Labels	:	Corrosive

14.5 Environmental hazards

ADR

Environmentally hazardous	:	no
IMDG		
Marine pollutant	:	no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial



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emissions (integrated pollution prevention and control) Not applicable

Other regulations:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

Exempt

SECTION 16: Other information

Full text of H-Statements					
H290 H314	:	May be corrosive to metals. Causes severe skin burns and eye damage.			
H318 Full text of other abbreviatic	: ne	Causes serious eye damage.			
Eye Dam.	:	Serious eye damage			
Met. Corr.	:	Corrosive to metals			
Skin Corr.	:	Skin corrosion			
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values			
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits			
2000/39/EC / TWA	:	Limit Value - eight hours			
2000/39/EC / STEL	:	Short term exposure limit			
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)			
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)			

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; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not

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Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information					
Classification of the mixture:		Classification procedure:			
Met. Corr. 1	H290	Based on product data or assessment			
Skin Corr. 1B	H314	Calculation method			
Eye Dam. 1	H318	Calculation method			

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.