

**SAFETY DATA SHEET According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758**

Material: 60054436

WACKER® PRIMER G 791 A

Version 3.1 (GB)

Print Date 06.06.2023

Date of last alteration: 10.05.2023

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Commercial product name:** WACKER® PRIMER G 791 A

This substance/ mixture contains nanoforms

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of substance / preparation:

Industrial. Commercial.

Intermediate chemical .

**1.3 Details of the supplier of the safety data sheet**

Manufacturer/distributor:

Wacker Chemie AG

Street/POB-No.:

Hanns-Seidel-Platz 4

State/postal code/city:

D 81737 München

Telephone:

+49 89 6279-0

Contact point:

Wacker Chemicals Ltd.

Street/POB-No.:

2 Arlington Square, Downshire Way

Postal code/city:

Bracknell RG12 1WA

Country:

United Kingdom

Telephone:

+44 1344 401 670

Information about the Safety Data Sheet:

Telephone

+49 8677 83-4888

eMail

WLCP-MSDS@wacker.com

**1.4 Emergency telephone number**

Emergency Information:

**+44 1273 289451****SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

Classification (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567):

Classification	H-Code
Flammable liquids, Category 2	H225
Skin corrosion/irritation, Category 2	H315
Specific target organ toxicity - single exposure, Category 3	H336
Long-term (chronic) aquatic hazard, Category 2	H411

**2.2 Label elements**

Labelling (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567):

Pictogram(s):



Signal Word: Danger

H-Code	Hazard Statements
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

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P-Code	Precautionary Statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P280	Wear protective gloves/protective clothing/eye protection.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P243	Take action to prevent static discharges.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/ doctor if you feel unwell.
P391	Collect spillage.
P370 + P378	In case of fire: Use water mist, carbon dioxide or alcohol-resistant foam to extinguish.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to waste disposal.
Hazard ingredients (labelling):	
C7 - C9 Isoalkanes	

**2.3 Other hazards**

No data available.

Endocrine disrupting properties - human health: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine disrupting properties - environment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

not applicable

**3.2 Mixtures****3.2.1 Chemical characteristics**

Polydimethylsiloxane with functional groups + solvent

**3.2.2 Hazardous ingredients**

C7 - C9 Isoalkanes	>50 %
CAS-No.: 90622-56-3	EC-No.: 292-458-5
INHA [1]	REACH No.: 01-2119471305-42
Classification according to Regulation (EC) No. 1272/2008*	Skin Irrit. 2 / H315; Flam. Liq. 2 / H225; STOT SE 3 / H336; Asp. Tox. 1 / H304; Aquatic Chronic 2 / H411

Type: INHA: ingredient, VERU: impurity

REACH registered substances may be included as impurities. These do not necessarily require identified uses and exposure scenarios in the safety data sheet.

[1] = Hazardous or environmentally harmful substance; [2] = substance with a Community workplace exposure limit; [3] = PBT substance; [4] = vPvB substance; [5] = Endocrine disrupting properties

\*Classification codes are explained in section 16.

Regarding CAS no. 90622-56-3: This substance can also be described by CAS no. 64741-66-8.

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) in amounts above  $\geq 0.1\%$ .

**SECTION 4: First aid measures**

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**4.1 Description of first aid measures****General information:**

Remove contaminated clothes at once. Where there is a risk of unconsciousness place and transport on one side in a stable position.

**After contact with the eyes:**

Rinse immediately with plenty of water for 10-15 minutes and seek medical advice.

**After contact with the skin:**

Wash with plenty of water or soap and water; immediately remove all contaminated clothing. In cases of sickness seek medical advice (show label if possible).

**After inhalation:**

Move to fresh air, keep the victim laying down and restful. If breathing has stopped, give artificial respiration. Administer oxygen in case of breathing difficulties. Seek medical advice and clearly identify substance.

**After swallowing:**

If conscious, give several small portions of water to drink. Do not induce vomiting. Danger of aspiration. Seek medical advice immediately and produce the label or packaging.

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

Any relevant information can be found in other parts of this section.

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

Further toxicology information in section 11 must be observed.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media:**

water mist , extinguishing powder , alcohol-resistant foam , carbon dioxide .

**Extinguishing media which must not be used for safety reasons:**

water jet .

**5.2 Special hazards arising from the substance or mixture**

Heavy soot formation during combustion.

**5.3 Advice for firefighters****Special protective equipment for fire fighting:**

Use respiratory protection independent of recirculated air.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment (see section 8). Avoid contact with eyes and skin. Avoid inhaling mists and vapours. If material is released indicate risk of slipping.

**6.2 Environmental precautions**

Prevent material from entering surface waters, drains or sewers and soil. Inform authorities if substance leaks into surface waters, sewerage or ground. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers.

**6.3 Methods and material for containment and cleaning up**

Do not flush away with water. Take up mechanically and dispose of according to local/state/federal regulations. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Exhaust vapours.

**Further information:**

Eliminate all sources of ignition. Do not seal collecting vessel gas-tight. Observe notes under section 7.

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**6.4 Reference to other sections**

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Precautions for safe handling:**

Ensure adequate ventilation. Must be syphoned off in situ. Spilled substance increases risk of slipping.

**Precautions against fire and explosion:**

Product can release hydrogen. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Keep away from heat, sparks and flame. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

**7.2 Conditions for safe storage, including any incompatibilities****Conditions for storage rooms and vessels:**

Do not store in glass containers. Make sure there is no possibility of entering the ground.

**Advice for storage of incompatible materials:**

Keep away from alkalis.

**Further information for storage:**

Protect against moisture. Store in original container only. Keep container tightly closed and store in a cool, well ventilated place.

**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Maximum airborne concentrations at the workplace:**

Substance	Type	mg/m <sup>3</sup>	ppm	Dust fract.	Fibre/m <sup>3</sup>
Aerosol - inhalable fraction		10,0			

-

The aerosol limit specified is a recommendation should aerosol be formed during processing.

**8.2 Exposure controls****8.2.1 Exposure in the work place limited and controlled****General protection and hygiene measures:**

Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Keep working clothes separately. Do not eat, drink or smoke when handling.

**Further information for system design and engineering measures**

Observe information in section 7.

**Personal protection equipment:****Respiratory protection**

If inhalative exposure above the occupational exposure limit cannot be excluded, adequate respiratory protection equipment must be used. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136. Recommended Filter type: Gas filter type ABEK (certain inorganic, organic and acidic gases and vapors; ammonia/amines), according to acknowledged standards such as EN 14387

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136. Recommended Filter type: Combined filter type ABEK-P2 (certain inorganic, organic and acidic gases and vapors; ammonia/amines; particles), according to acknowledged standards such as EN 14387

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For long or intense exposure, use respiratory protective equipment. Suitable respiratory equipment: Positive pressure self contained breathing apparatus, according to acknowledged standards such as EN 137.

Observe the equipment manufacturer's information and wear time limits for respirators.

**Eye protection**

tight fitting protective goggles, according to acknowledged standards such as EN 166. .

**Hand protection**

Protective gloves are required at all times when handling the material, according to recognized standards such as EN374.

Recommended glove types: Protective gloves made of fluorinated rubber

thickness of the material: > 0,7 mm

Breakthrough time: > 480 min

Recommended glove types: Protective gloves made of 5-layer laminate of PE and EVOH (4H)

thickness of the material: > 0,062 mm

Breakthrough time: > 480 min

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.

**Skin protection**

protective clothing, according to acknowledged standards such as EN 13034. .

**8.2.2 Exposure to the environment limited and controlled**

Prevent material from entering surface waters, drains or sewers and soil.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

<b>Property:</b>	<b>Value:</b>	<b>Method:</b>
Physical state .....	liquid	
Colour .....	colourless	
Odour .....	faint	
Odour Threshold .....	no data available	
Melting point.....	not determined	
Boiling point/boiling range .....	116 - 134 °C at 1013 hPa	(not specified)
Lower explosion limit.....	0,9 Vol-%	(not specified)
Upper explosion limit.....	7,0 Vol-%	(not specified)
Flash point.....	7 °C	(DIN 51755)
Ignition temperature .....	415 °C	(DIN 51794)
Thermal decomposition.....	exempt	
pH .....	Not applicable. Insoluble in water.	
Viscosity, kinematic.....	no data available	
Viscosity, dynamic.....	28 mPa.s	
Water solubility.....	practically insoluble	
Partition coefficient: n-octanol/water .....	not applicable	
Vapour pressure.....	25 hPa at 20 °C	(EU-GL.A.4)
Vapour pressure.....	127 hPa at 50 °C	(DIN 13016-3)
Density .....	0,77 g/cm <sup>3</sup> (25 °C)	(DIN 51757)
Relative vapour density.....	no data available	
Particle Size Distribution .....	Not applicable.	

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**9.2 Other information**

According to previous experience spontaneous combustion temperature for polymer siloxane with SiH compounds is above 240 °C (464 °F). On a catalytically active surface ignition may occur at much lower temperature. This applies to porous or fibrous substances including those with alkaline surfaces, such as thermal insulation and cementaceous insulating materials. Explosion limits for released hydrogen: 4 - 75.6%(V). Solubility in water: Hydrolytic decomposition occurs. pH Value: Product displays neutral reaction.

Property:	Value:	Method:
Evaporation rate.....:	no data available	
Molecular weight.....:	not applicable	

**SECTION 10: Stability and reactivity****10.1 – 10.3 Reactivity; Chemical stability; Possibility of hazardous reactions**

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Relevant information can possibly be found in other parts of this section.

**10.4 Conditions to avoid**

None known.

**10.5 Incompatible materials**

Reacts with: basic substances (e.g. alkalis, ammonia, amines) , strong acids and oxidizing agents . The reaction takes place with the formation of hydrogen.

**10.6 Hazardous decomposition products**

hydrogen . Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation. With hydrogen sil(ox)anes risk of spontaneous formation of combustible, highly flammable silanes under certain circumstances regardless of production process. Avoid any contact with alkalis.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****11.1.1 Acute toxicity****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**Acute toxicity estimate (ATE):**

ATE<sub>mix</sub> (Oral): > 2000 mg/kg

**11.1.2 Skin corrosion/irritation****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.3 Serious eye damage/eye irritation****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.4 Respiratory or skin sensitisation****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.5 Germ cell mutagenicity****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

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**11.1.6 Carcinogenicity****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.7 Reproductive toxicity****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.8 Specific target organ toxicity - single exposure****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.9 Specific target organ toxicity - repeated exposure****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.10 Aspiration hazard****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.2 Information on other hazards****11.2.1 Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**11.2.2 Further toxicological information**

According to literature aliphatic hydrocarbons are slightly irritating to the skin and mucuous membranes and have a skin drying and narcotic effect. If the lungs are directly affected (e.g. by aspiration), inflammation of the lungs may occur.

**SECTION 12: Ecological information****12.1 Toxicity****Assessment:**

For the product as a whole, no test data is available.

**12.2 Persistence and degradability****Assessment:**

Silicone content: biologically not degradable. Elimination by adsorption to activated sludge.

**12.3 Bioaccumulative potential****Assessment:**

No data known.

**12.4 Mobility in soil****Assessment:**

Silicone content: Absorbed by floating particles. Separation by sedimentation.

**12.5 Results of PBT and vPvB assessment**

No data available.

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**12.6 Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7 Other adverse effects**

none known

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****13.1.1 Material**

Recommendation:

Risk of hydrogen gas formation with water, alcohols, acids, metallic salts, amines and alkalis. In combination with oxygen, the released hydrogen can form oxyhydrogen. Provide measures such as vented bungs to ensure pressure relief in the waste containers. Material designated for disposal must be segregated from incompatible substances or materials specified in Sect. 10. Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.

**13.1.2 Uncleaned packaging**

Recommendation:

Containers may contain hazardous quantities of hydrogen gas. Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

**13.1.3 Waste Disposal Legislation Ref.No.(EC)**

It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

**SECTION 14: Transport information****14.1 – 14.4 UN number; UN proper shipping name; Transport hazard class(es); Packing group****Road ADR:**

Valuation .....: Dangerous Goods  
14.1 UN no. ....: 3295  
14.2 Proper Shipping Name .....: Kohlenwasserstoffe, flüssig, n.a.g.  
14.2 Proper Shipping Name (national) ...: HYDROCARBONS, LIQUID, N.O.S.  
14.3 Class .....: 3  
14.4 Packaging Group .....: II  
14.5 Limited quantity .....: 1L

**Railway RID:**

Valuation .....: Dangerous Goods  
14.1 UN no. ....: 3295  
14.2 Proper Shipping Name .....: Kohlenwasserstoffe, flüssig, n.a.g.  
14.2 Proper Shipping Name (national) ...: HYDROCARBONS, LIQUID, N.O.S.  
14.3 Class .....: 3  
14.4 Packaging Group .....: II

**Transport by sea IMDG-Code:**

Valuation .....: Dangerous Goods  
14.1 UN no. ....: 3295  
14.2 Proper Shipping Name .....: Hydrocarbons, liquid, n.o.s. (contains C7 - C9 Isoalkanes)  
14.3 Class .....: 3  
14.4 Packaging Group .....: II

**Air transport ICAO-TI/IATA-DGR:**

Valuation .....: Dangerous Goods  
14.1 UN no. ....: 3295  
14.2 Proper Shipping Name .....: Hydrocarbons, liquid, n.o.s.



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14.3 Class .....: 3  
 14.4 Packaging Group .....: II

**14.5 Environmental hazards**

Hazardous to the environment: yes  
 Marine Pollutant (IMDG): yes

**14.6 Special precautions for user**

Relevant information in other sections has to be considered.

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

Bulk transport in tankers is not intended.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

**Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances (Seveso III):**

Listed in Directive	Ser. number in list	Qualifying Quantity 1	Qualifying Quantity 2
FLAMMABLE LIQUIDS	P5c	5.000 t	50.000 t
ENVIRONMENTAL HAZARDS	E2	200 t	500 t

**Relevant regulations:**

SI 2002/1689: CHIP Regulations 2002

SI 2002/2677: COSHH Regulations 2002

SI 1999/3242: Management of Health & Safety at Work Regulations 1999

Health & Safety at Work Act 1974

SI 1993/1643: Environmental Protection Act 1993 & Subsidiary Regulations.

Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

**Other specifications, restrictions and prohibitions:**

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - ANNEX I. RESTRICTED EXPLOSIVES PRECURSORS: Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - ANNEX II. REPORTABLE EXPLOSIVES PRECURSORS: Not applicable

**Details of international registration status**

Relevant information about individual substance inventories, where available, is given below.

Japan .....: **ENCS** (Handbook of Existing and New Chemical Substances):  
 This product is listed in, or complies with, the substance inventory.

New Zealand .....: **NZIoC** (New Zealand Inventory of Chemicals):  
 This product is listed in, or complies with, the substance inventory. (For a correct interpretation of the New Zealand status, additional information like GHS classification or Group Standard is required.)

Australia .....: **AiIC** (Australian Inventory of Industrial Chemicals):  
 This product is listed in, or complies with, the substance inventory.

China.....: **IECSC** (Inventory of Existing Chemical Substances in China):  
 This product is listed in, or complies with, the substance inventory.

Canada .....: **DSL** (Domestic Substance List):  
 This product is listed in, or complies with, the substance inventory.

Philippines.....: **PICCS** (Philippine Inventory of Chemicals and Chemical Substances):  
 This product is listed in, or complies with, the substance inventory.

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United States of America (USA).....	: <b>TSCA</b> (Toxic Substance Control Act Chemical Substance Inventory): All components of this product are listed as active or are in compliance with the substance inventory.
Taiwan .....	: <b>TCSI</b> (Taiwan Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.
European Economic Area (EEA).....	: <b>REACH</b> (Regulation (EC) No 1907/2006): General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.
South Korea (Republic of Korea) .....	: <b>AREC</b> (Act on Registration and Evaluation of Chemicals; "K-REACH"): Please approach your regular contact for more detailed information.

## 15.2 Chemical safety assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

## SECTION 16: Other information

### 16.1 Material

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

WACKER restricts the use of its products inside the human body or in contact with bodily fluids and mucosa. For further details please review our Health Care Policy on [www.wacker.com](http://www.wacker.com). WACKER may cancel any delivery obligation(s) if the Health Care Policy is not observed.

### 16.2 Further information:

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

#### Key or legend to abbreviations and acronyms used in the safety data sheet

ABEK - Multi-Range Filter A, B, E, K; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; APF - Assigned Protection Factor; CAS No. - Chemical Abstracts Service Registry Number; DFG - German Research Foundation; DIN - German institute for standardization; DOC - Dissolved Organic Carbon; d/w - days per week; EC / CE / EG - European Community; EC50 / CE50 - Median effective concentration; ECHA - European Chemicals Agency; ED - endocrine disruptor; EG-RL - test method according to Regulation 440/2008; EN - European Standard; ERC - Environmental Release Category; g/cm<sup>3</sup> - gram per cubic centimeter; h - hour(s); H-Code - hazard statement code(s); hPa - Hectopascal; IATA Regs - International Air Transport Association (IATA) Dangerous Goods Regulations; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 / CI50 - half maximal inhibitory concentration; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IMDG Code - International Maritime Dangerous Goods Code; ISO - International Organization for Standardization; LC50 / CL50 - medium lethal concentration; LD50 / DL50 - medium lethal dose; LOAEC - Lowest Observed Adverse Effect Concentration; LOAEL - Lowest Observed Adverse Effect Level; MARPOL - International Convention for the Prevention of Marine Pollution from Ships; mg/g - milligrams per gram; mg/kg - milligrams per kilogram; mg/l - milligrams per liter; mg/m<sup>3</sup> - milligrams per cubic meter; min - minutes; mJ - millijoule; mm - millimeter; mm<sup>2</sup>/s - square millimeter per second; mPa.s - Millipascal second(s); MSDS / SDB / SDS - safety data sheet; No Observed Adverse Effect Concentration; NOAEL - No Observed adverse effect level; NOEC - No Observed Effect Concentration; NOEL - No Observed Effect Level; OECD - Organization for Economic Cooperation and Development; PBT - persistent, bioaccumulative, toxic; PC - product category; P-Code - precautionary statement code(s); ppm - parts per million; PROC -

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process category; RCP - reciprocal calculation-based procedure; RID - convention concerning international carriage by rail; SU - sector of use; SVHC - substance of very high concern; Vol% - volume percent; UN No. - United Nations Dangerous Goods Number; vPvB - very Persistent, very Bioaccumulative

Explanation of the GHS classification code:

Skin Irrit. 2; H315..... : Skin corrosion/irritation Category 2; Causes skin irritation.  
Flam. Liq. 2; H225..... : Flammable liquids Category 2; Highly flammable liquid and vapour.  
STOT SE 3; H336..... : Specific target organ toxicity - single exposure Category 3; May cause drowsiness or dizziness.  
Asp. Tox. 1; H304..... : Aspiration hazard Category 1; May be fatal if swallowed and enters airways.  
Aquatic Chronic 2; H411 : Long-term (chronic) aquatic hazard Category 2; Toxic to aquatic life with long lasting effects.

Classification	Rationale:
Flammable liquids, Category 2	On basis of test data.
Skin corrosion/irritation, Category 2	Calculation method
Specific target organ toxicity - single exposure, Category 3	Calculation method
Long-term (chronic) aquatic hazard, Category 2	Calculation method

**- End of Safety Data Sheet -**