

Page 1 of 10

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 29.01.2019 / 0011

Replacing version dated / version: 21.08.2015 / 0010

Valid from: 29.01.2019 PDF print date: 30.01.2019 Molygen 5W-50 4 L Art.: 2543

# Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

#### 1.1 Product identifier

# Molygen 5W-50 4 L

Art.: 2543

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

Lubricant

Sector of use [SU]:

SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 - Consumer uses: Private households (=general public = consumers)

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC17 - Hydraulic fluids

PC24 - Lubricants, greases, release products

Process category [PROC]:

PROC 1 - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC 2 - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent

containment conditions

PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC 8b - Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC 9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC20 - Use of functional fluids in small devices

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC 4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC 7 - Use of functional fluid at industrial site

ERC 9a - Widespread use of functional fluid (indoor)

ERC 9b - Widespread use of functional fluid (outdoor)

#### **Uses advised against:**

No information available at present.

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

LIQUI MOLY GmbH, Jerg-Wieland-Str. 4, 89081 Ulm-Lehr, Germany Phone: (+49) 0731-1420-0, Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

## 1.4 Emergency telephone number

# Emergency information services / official advisory body:

# Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

# **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture



Page 2 of 10

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 29.01.2019 / 0011 Replacing version dated / version: 21.08.2015 / 0010

Valid from: 29.01.2019 PDF print date: 30.01.2019 Molygen 5W-50 4 L

Art.: 2543

# Classification according to Regulation (EC) 1272/2008 (CLP)

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

# 2.2 Label elements

# Labeling according to Regulation (EC) 1272/2008 (CLP)

Not applicable

#### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substance

# n.a. 3.2 Mixture

Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	
CAS	
content %	
Classification according to Regulation (EC) 1272/2008 (CLP)	

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

# Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

# Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

Danger of aspiration

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur:

Irritation of the eyes

Irritation of the skin.

Drying of the skin.

Dermatitis (skin inflammation)

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

Symptomatic treatment.



(B)

Page 3 of 10

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 29.01.2019 / 0011

Replacing version dated / version: 21.08.2015 / 0010

Valid from: 29.01.2019 PDF print date: 30.01.2019 Molygen 5W-50 4 L

Art.: 2543

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media Suitable extinguishing media

CO2 Foam

Dry extinguisher

# Unsuitable extinguishing media

High volume water jet

# 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Irritating vapours

Oxides of carbon

Oxides of nitrogen

Oxides of sulphur

Oxides of phosphorus

Flammable vapour/air mixtures

## 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

## **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient supply of air.

Avoid formation of oil mist.

Avoid inhalation, and contact with eyes or skin.

Do not carry cleaning cloths soaked in product in trouser pockets.

If applicable, caution - risk of slipping.

#### 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

# 6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent) and dispose of according to Section 13.

#### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

#### **SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

#### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Ensure good ventilation.

Keep away from sources of ignition - Do not smoke.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Do not heat to temperatures close to flash point.

Take measures against electrostatic charging, if appropriate.

Observe directions on label and instructions for use.

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.



Page 4 of 10

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 29.01.2019 / 0011

Replacing version dated / version: 21.08.2015 / 0010

Valid from: 29.01.2019 PDF print date: 30.01.2019 Molygen 5W-50 4 L

Art.: 2543

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

# 7.2 Conditions for safe storage, including any incompatibilities

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Protect against moisture and store closed.

Store cool.

## 7.3 Specific end use(s)

No information available at present.

# **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

(	B Chemical Name Oil mist, mineral		Content %:
Г	WEL-TWA: 5 mg/m3 (Mineral oil, excluding metal	WEL-STEL:	
	working fluids, ACGIH)		
Г	Monitoring procedures: -	Draeger - Oil 10/a-P (67 28 371)	
il	- ·	Draeger - Oil Mist 1/a (67 33 031)	
iΓ	BMGV:	Other infor	rmation:

Distillates (petroleum), hydrotreated heavy paraffinic							
Area of application	Exposure route / Effect on health Descriptor Value Unit No						
	Environmental		-				
	compartment						
	Environment - oral (animal		PNEC	9,33	mg/kg		
	feed)						

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

#### 8.2 Exposure controls

# 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. BS EN 14042.

BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

#### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles (EN 166) with side protection, with danger of splashes.

<sup>(8) =</sup> Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

<sup>(8) =</sup> Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

<sup>\*\* =</sup> The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.



Page 5 of 10

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 29.01.2019 / 0011

Replacing version dated / version: 21.08.2015 / 0010

Valid from: 29.01.2019 PDF print date: 30.01.2019 Molygen 5W-50 4 L Art.: 2543

Skin protection - Hand protection: Protective nitrile gloves (EN 374)

Permeation time (penetration time) in minutes:

Minimum layer thickness in mm:

0.4

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

Normally not necessary.

With oil mist formation:

Filter A P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

## 8.2.3 Environmental exposure controls

No information available at present.

# **SECTION 9: Physical and chemical properties**

n.a.

# 9.1 Information on basic physical and chemical properties

Physical state: Liquid

Green, Brown, Fluorescent Colour:

Odour: Characteristic Odour threshold: Not determined

Not determined pH-value: Melting point/freezing point: Not determined Initial boiling point and boiling range: Not determined

Flash point: 242 °C Not determined Evaporation rate:

Flammability (solid, gas): Lower explosive limit: Not determined Upper explosive limit: Not determined Vapour pressure: Not determined

Vapour density (air = 1): Not determined 0,847 g/ml Density: Bulk density: n.a.

Solubility(ies): Not determined Water solubility: Insoluble Partition coefficient (n-octanol/water): Not determined Auto-ignition temperature: Not determined

Decomposition temperature: Not determined Viscosity: 118,1 mm2/s (40°C) Viscosity:

18,8 mm2/s (100°C) Explosive properties: Product is not explosive.

Oxidising properties:



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Page 6 of 10

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 29.01.2019 / 0011 Replacing version dated / version: 21.08.2015 / 0010

Valid from: 29.01.2019 PDF print date: 30.01.2019

Molygen 5W-50 4 L

Art.: 2543

## 9.2 Other information

Miscibility:

Fat solubility / solvent:

Conductivity:

Not determined

Not determined

Surface tension:

Not determined

Not determined

Not determined

Not determined

Not determined

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

The product has not been tested.

# 10.2 Chemical stability

Stable with proper storage and handling.

# 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

#### 10.4 Conditions to avoid

See also section 7.

Strong heat

# 10.5 Incompatible materials

See also section 7.

Avoid contact with strong oxidizing agents.

Avoid contact with strong acids.

#### 10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

Molygen 5W-50 4 L						
Art.: 2543						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

# **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).

Molygen 5W-50 4 L							
Art.: 2543							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.



Page 7 of 10

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 29.01.2019 / 0011

Replacing version dated / version: 21.08.2015 / 0010

Valid from: 29.01.2019 PDF print date: 30.01.2019 Molygen 5W-50 4 L Art.: 2543

12.1. Toxicity to daphnia:		n.d.a.
12.1. Toxicity to algae:		n.d.a.
12.2. Persistence and		Mechanical
degradability:		precipitation
		possible.
12.3. Bioaccumulative		n.d.a.
potential:		
12.4. Mobility in soil:		n.d.a.
12.5. Results of PBT		n.d.a.
and vPvB assessment		
12.6. Other adverse		n.d.a.
effects:		

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

# For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of. EC disposal code no .:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

07 06 99 wastes not otherwise specified

13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils

20 01 26 oil and fat other than those mentioned in 20 01 25

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

# For contaminated packing material

Pay attention to local and national official regulations.

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging

15 01 04 metallic packaging

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

# **SECTION 14: Transport information**

#### **General statements**

14.1. UN number: n.a.

# Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a. 14.4. Packing group: n.a. Classification code: n.a. LQ: n.a.

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

# Transport by sea (IMDG-code)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a. 14.4. Packing group: n.a. Marine Pollutant: n.a

Not applicable 14.5. Environmental hazards:

#### Transport by air (IATA)

14.2. UN proper shipping name:



Page 8 of 10

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 29.01.2019 / 0011

Replacing version dated / version: 21.08.2015 / 0010

Valid from: 29.01.2019 PDF print date: 30.01.2019 Molygen 5W-50 4 L

Art.: 2543

14.3. Transport hazard class(es): n.a. 14.4. Packing group: n.a.

Not applicable 14.5. Environmental hazards:

#### 14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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

Non-dangerous material according to Transport Regulations.

# **SECTION 15: Regulatory information**

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

Observe restrictions:

General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC): 1,26 %

## 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

#### **SECTION 16: Other information**

Revised sections: 2, 3, 8, 11, 12, 15

# Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Not applicable

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

# Any abbreviations and acronyms used in this document:

AC **Article Categories** 

acc., acc. to according, according to

ACGIH American Conference of Governmental Industrial Hygienists

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the

International Carriage of Dangerous Goods by Road) AOEL Acceptable Operator Exposure Level

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)

BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)

BMGV Biological monitoring guidance value (EH40, UK)

BOD Biochemical oxygen demand

BSEF Bromine Science and Environmental Forum

body weight hw

CAS Chemical Abstracts Service

CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids

CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques

CIPAC Collaborative International Pesticides Analytical Council



Page 9 of 10

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 29.01.2019 / 0011

Replacing version dated / version: 21.08.2015 / 0010

Valid from: 29.01.2019 PDF print date: 30.01.2019 Molygen 5W-50 4 L Art.: 2543

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances

and mixtures)

carcinogenic, mutagenic, reproductive toxic CMR

Chemical oxygen demand

CTFA Cosmetic, Toiletry, and Fragrance Association

DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon

DT50 Dwell Time - 50% reduction of start concentration

Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes) DVS

dw dry weight

e.g. EC for example (abbreviation of Latin 'exempli gratia'), for instance

**European Community** ECHA European Chemicals Agency European Economic Area FFA **EEC European Economic Community** 

**EINECS** European Inventory of Existing Commercial Chemical Substances

**ELINCS** European List of Notified Chemical Substances

ΕN European Norms

United States Environmental Protection Agency (United States of America) **FPA** 

**ERC Environmental Release Categories** 

ES Exposure scenario

et cetera etc. European Union EU

**EWC** European Waste Catalogue

Fax. Fax number gen. general

Globally Harmonized System of Classification and Labelling of Chemicals GHS

**GWP** Global warming potential

HET-CAM Hen's Egg Test - Chorionallantoic Membrane

**HGWP Halocarbon Global Warming Potential** International Agency for Research on Cancer IARC International Air Transport Association IATA

Intermediate Bulk Container **IBC** 

IBC (Code) International Bulk Chemical (Code)

IC Inhibitory concentration

IMDG-code International Maritime Code for Dangerous Goods

including, inclusive

**IUCLID International Uniform Chemical Information Database** 

lethal concentration LC

LC50 lethal concentration 50 percent kill LCLo lowest published lethal concentration

LD Lethal Dose of a chemical LD50 Lethal Dose, 50% kill LDLo Lethal Dose Low

LOAEL Lowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration

LOEL Lowest Observed Effect Level

LQ **Limited Quantities** 

MARPOL International Convention for the Prevention of Marine Pollution from Ships

not applicable n.a. not available n.av. not checked n.c. no data available n.d.a.

NIOSH National Institute of Occupational Safety and Health (United States of America)

NOAECNo Observed Adverse Effective Concentration

NOAEL No Observed Adverse Effect Level NOEC No Observed Effect Concentration NOEL No Observed Effect Level

ODP Ozone Depletion Potential

OECD Organisation for Economic Co-operation and Development

organic org.

polycyclic aromatic hydrocarbon PAH



Page 10 of 10

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 29.01.2019 / 0011

Replacing version dated / version: 21.08.2015 / 0010

Valid from: 29.01.2019 PDF print date: 30.01.2019 Molygen 5W-50 4 L

Art.: 2543

**PBT** persistent, bioaccumulative and toxic

PC Chemical product category

PΕ Polyethylene

PNEC Predicted No Effect Concentration POCP Photochemical ozone creation potential

ppm parts per million PROC Process category PTFE Polytetrafluorethylene

REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration,

Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List

Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International

Carriage of Dangerous Goods by Rail)

SADT Self-Accelerating Decomposition Temperature

Structure Activity Relationship SAR

SU Sector of use

SVHC Substances of Very High Concern

Tel. Telephone

ThOD Theoretical oxygen demand

TOC Total organic carbon

TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria)) VbF

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average)

reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

# These statements were made by: Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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