

(GB)

Page 1 of 11

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

Revision date / version: 07.05.2018 / 0005

Replacing version dated / version: 13.07.2015 / 0004

Valid from: 07.05.2018 PDF print date: 08.05.2018

Reference leak 8885100095

# 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

# Reference leak 8885100095

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

Test fluid

Industrial use

Sector of use [SU]:

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

Chemical product category [PC]:

PC21 - Laboratory chemicals

Process category [PROC]:

PROC 2 - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC10a - Widespread use of articles with low release (outdoor)

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

No information available at present.

# 1.3 Details of the supplier of the safety data sheet

Dometic WAECO International GmbH, Hollefeldstr. 63, 48282 Emsdetten, Germany

Phone:+49 (0) 2572 879 0, Fax:+49 (0) 2572 879 300

info@dometic-waeco.de, www.airconservice.de

(GB)

Dometic UK Ltd Dometic House, The Brewery, DT11 9LS Blandford St Mary, Dorset, United Kingdom

Phone:+44 (0) 0844 626 0133, Fax:+44 (0) 0844 626 0143

automotive@dometic.co.uk, www.airconstations.co.uk

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 (CCWA)

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

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

Hazard class Hazard category Hazard statement

Aquatic Chronic 4 H413-May cause long lasting harmful effects to aquatic

lite.



(GB)

Page 2 of 11

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

Revision date / version: 07.05.2018 / 0005

Replacing version dated / version: 13.07.2015 / 0004

Valid from: 07.05.2018 PDF print date: 08.05.2018

Reference leak 8885100095

#### 2.2 Label elements

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

H413-May cause long lasting harmful effects to aquatic life.

P273-Avoid release to the environment.

P501-Dispose of contents / container to special waste collection point.

#### 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

Methoxynonafluoroisobutane	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	422-270-2
CAS	163702-08-7
content %	20-80
Classification according to Regulation (EC) 1272/2008 (CLP)	Aquatic Chronic 4, H413

Methoxynonafluorobutane	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	422-270-2
CAS	163702-07-6
content %	20-80
Classification according to Regulation (EC) 1272/2008 (CLP)	Aquatic Chronic 4, H413

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

## **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.



GB)

Page 3 of 11

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

Revision date / version: 07.05.2018 / 0005

Replacing version dated / version: 13.07.2015 / 0004

Valid from: 07.05.2018 PDF print date: 08.05.2018

Reference leak 8885100095

#### Eye contact

Remove contact lenses.

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

#### Ingestion

Consult doctor immediately - keep Data Sheet available.

# 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. 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

No special measures required.

Indications for the physician:

Symptomatic treatment.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media Suitable extinguishing media

CO<sub>2</sub>

Extinction powder

Water jet spray

Large fire:

Water jet spray / alcohol resistant foam

# 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:

Oxides of carbon

Hydrofluoric acid

Fluoro compounds

Toxic pyrolysis products.

#### 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.

Remove possible causes of ignition - do not smoke.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

# 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

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

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

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

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

Clean soiled bottles immediately.

# 6.4 Reference to other sections

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



Content %:20

. (B)

Page 4 of 11

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

Revision date / version: 07.05.2018 / 0005

Replacing version dated / version: 13.07.2015 / 0004

Valid from: 07.05.2018 PDF print date: 08.05.2018

Reference leak 8885100095

# **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.

If applicable, suction measures at the workstation or on the processing machine necessary.

Keep away from sources of ignition - Do not smoke.

Handle and open container with care.

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

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

# 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.

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

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Do not store with alkalis.

Keep away from food, drink and animal feedingstuffs.

Protect from direct sunlight and warming.

### 7.3 Specific end use(s)

No information available at present.

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

# 8.1 Control parameters

(GB)

Chemical Name	Methoxynonafluoroisobutane	80	
WEL-TWA:	WEL-STEL:	750 ppm (WEEL)	
Monitoring procedures:			
BMGV:		Other information: -	
Chemical Name	Methoxynonafluorobutane		Content %:20- 80
WEL-TWA:		750 ppm (WEEL)	
Chemical Name		750 ppm (WEEL)	

- 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) = Inhalable fraction (2017/164/EU). (9) = Respirable fraction (2017/164/EU). | WEL-STEL = Workplace Exposure Limit Short-term exposure limit (15-minute reference period).
- (8) = Inhalable fraction (2017/164/EU). (9) = Respirable fraction (2017/164/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.
- \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

#### 8.2 Exposure controls

# 8.2.1 Appropriate engineering controls

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



(GB)

Page 5 of 11

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

Revision date / version: 07.05.2018 / 0005

Replacing version dated / version: 13.07.2015 / 0004

Valid from: 07.05.2018 PDF print date: 08.05.2018

Reference leak 8885100095

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 with side protection (EN 166).

Skin protection - Hand protection:

Protective plastic gloves (EN 374).

With short-term contact:

Protective PVC gloves (EN 374)

With long-term contact:

Protective nitrile gloves (EN 374)

Minimum layer thickness in mm:

>= 0,4

Permeation time (penetration time) in minutes:

> 480

Protective hand cream recommended.

Unsuitable material:

Cotton gloves

Leather gloves

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:

If air supply is not sufficient, wear protective breathing apparatus.

Gas mask filter AX (EN 14387), code colour brown.

Observe wearing time limitations for respiratory protection equipment.

#### Thermal hazards:

If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

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**

# 9.1 Information on basic physical and chemical properties



Page 6 of 11

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

Revision date / version: 07.05.2018 / 0005

Replacing version dated / version: 13.07.2015 / 0004

Valid from: 07.05.2018 PDF print date: 08.05.2018

Reference leak 8885100095

Physical state:

Colour:

Colour:

Colour:

Colour:

Colourless
Odour:

Ether

Odour threshold:

pH-value:

Not determined

Not determined

Not determined

Not determined

-135 °C

Initial boiling point and boiling range:

61 °C

Flash point:

Evaporation rate:

Flammability (solid, gas):

Lower explosive limit:

Not determined
49 g/cm3

Not determined
n.a.

Lower explosive limit: n.a. Upper explosive limit: n.a.

Vapour pressure:

Vapour density (air = 1):

Density:

Bulk density:

Solubility(ies):

Water solubility:

Not determined

Not determined

Not determined

Not determined

Not determined

Water solubility:

Partition coefficient (n-octanol/water):

Not determined

Auto-ignition temperature: No

Decomposition temperature:

Viscosity:

Not determined

Not determined

Explosive properties: Product is not explosive.

Oxidising properties: Not determined

9.2 Other information

Miscibility:

Fat solubility / solvent:

Conductivity:

Not determined

Not determined

Not determined

Not determined

Not determined

Not determined

Solvents content: 0 %

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

See also Subsection 10.2 to 10.6. The product has not been tested.

#### 10.2 Chemical stability

See also Subsection 10.1 to 10.6. Stable with proper storage and handling.

#### 10.3 Possibility of hazardous reactions

See also Subsection 10.1 to 10.6.

#### 10.4 Conditions to avoid

See also section 7.

# 10.5 Incompatible materials

See also section 7.

No dangerous reactions are known. Avoid contact with strong alkalis.

# 10.6 Hazardous decomposition products

See also Subsection 10.1 to 10.5.

See also section 5.2 Hydrofluoric acid Perfluorisobutylen

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects



Œ

Page 7 of 11

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

Revision date / version: 07.05.2018 / 0005

Replacing version dated / version: 13.07.2015 / 0004

Valid from: 07.05.2018 PDF print date: 08.05.2018

Reference leak 8885100095

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

Reference leak 8885100095						
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:	NOEL	>7500	ppm	Rat		90d
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Methoxynonafluoroisobutane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat		
Acute toxicity, by inhalation:	LD50	>10	mg/l/4h	Rat		
Skin corrosion/irritation:				Rabbit		Not irritant
Serious eye				Rabbit		Not irritant
damage/irritation:						
Respiratory or skin				Guinea pig		Not sensitizising
sensitisation:						
Germ cell mutagenicity:					bacterial	Negative

Methoxynonafluorobutane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat		
Skin corrosion/irritation:				Rabbit		Not irritant
Serious eye				Rabbit		Not irritant
damage/irritation:						
Respiratory or skin				Guinea pig		Not sensitizising
sensitisation:						
Germ cell mutagenicity:					bacterial	Negative

# **SECTION 12: Ecological information**

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

Reference leak							
8885100095							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and							Hardly
degradability:							biodegradable
12.3. Bioaccumulative							n.d.a.
potential:							



Page 8 of 11

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

Revision date / version: 07.05.2018 / 0005

Replacing version dated / version: 13.07.2015 / 0004

Valid from: 07.05.2018 PDF print date: 08.05.2018

Reference leak 8885100095

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:			
Ozone depletion			
potential (ODP):			
Global warming	320		(100 a, CO2 =
potential (GWP):			1, IPCC 94)

Methoxynonafluoroisobutane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and degradability:		28d	22	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	
12.3. Bioaccumulative potential:	BCF		71-118				

Methoxynonafluorobutane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and		28d	22	%			
degradability:							
12.3. Bioaccumulative	BCF		71-118				
potential:							

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

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 - WASTES FROM ORGANIC CHEMICAL PROCESSES

07 01 wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals

07 01 03 organic halogenated solvents, washing liquids and mother liquors

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Approved rubbish dump for special refuse

# For contaminated packing material

Pay attention to local and national official regulations.

# **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.

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

LQ:



Page 9 of 11

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

Revision date / version: 07.05.2018 / 0005

Replacing version dated / version: 13.07.2015 / 0004

Valid from: 07.05.2018 PDF print date: 08.05.2018

Reference leak 8885100095

# 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

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

n.a.

14.4. Packing group:

n.a.

14.5. Environmental hazards:

Not applicable

# 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:

Comply with trade association/occupational health regulations.

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

# **SECTION 16: Other information**

Revised sections:

1

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

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

Classification in accordance with regulation	Evaluation method used
(EC) No. 1272/2008 (CLP)	
Aquatic Chronic 4, H413	Classification according to calculation procedure.

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).

H413 May cause long lasting harmful effects to aquatic life.

Aquatic Chronic — Hazardous to the aquatic environment - chronic

# 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



Page 10 of 11

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

Revision date / version: 07.05.2018 / 0005

Replacing version dated / version: 13.07.2015 / 0004

Valid from: 07.05.2018 PDF print date: 08.05.2018

Reference leak 8885100095

approx. approximately Art., Art. no. Article number

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

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

bw body weight

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

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

CMR carcinogenic, mutagenic, reproductive toxic

COD 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

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

dw dry weight

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

EC European Community
ECHA European Chemicals Agency
EEA European Economic Area
EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ERC Environmental Release Categories

ES Exposure scenario

etc. et cetera
EU European Union

EWC European Waste Catalogue

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

HET-CAM Hen's Egg Test - Chorionallantoic Membrane

HGWP Halocarbon Global Warming Potential IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC Intermediate Bulk Container

IBC (Code) International Bulk Chemical (Code)

IC Inhibitory concentration

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

**IUCLIDInternational Uniform Chemical Information Database** 

LC lethal concentration

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



Page 11 of 11

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

Revision date / version: 07.05.2018 / 0005

Replacing version dated / version: 13.07.2015 / 0004

Valid from: 07.05.2018 PDF print date: 08.05.2018

Reference leak 8885100095

LOAELLowest 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

n.a. not applicablen.av. not availablen.c. not checkedn.d.a. no data available

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

NOAEC No 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

org. organic

PAH polycyclic aromatic hydrocarbon PBT persistent, bioaccumulative and toxic

PC Chemical product category

PE Polyethylene

PNEC Predicted No Effect Concentration POCP Photochemical ozone creation potential

ppm parts per million PROC Process category PTFE Polytetrafluorethylene

REACH Registration, 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.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SADT Self-Accelerating Decomposition Temperature

SAR Structure Activity Relationship

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

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

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 GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

© by Chemical Check GmbH Gefahrstoffberatung. The copying or changing of this document is forbidden except with consent of the Chemical Check GmbH Gefahrstoffberatung.