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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

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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

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 www.waeco.de

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 mixtureClassification according to Regulation (EC)1272/2008 (CLP)Hazard classHazard categoryHazard statementAquatic Chronic4H413-May cause lo

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



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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. ? ? Mixture

J.Z WIXTURE		
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)		
Registration number (REACH) Index		
Index		
Index EINECS, ELINCS, NLP	 422-270-2	

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 3.1/3.2 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

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.



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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

CO2 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**

b.5 Advice for menginers

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.

SECTION 7: Handling and storage



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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.

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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

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

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | 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.

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 nonmetrological investigative techniques.

These are specified by e.g. EN 14042.



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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.

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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 374 Part 3 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

Physical state: Colour: Colour: Odour: Odour threshold: properties Liquid Clear Colourless Ether Not determined



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pH-value:

Melting point/freezing point: Initial boiling point and boiling range: Flash point: Evaporation rate: Flammability (solid, gas): Lower explosive limit: Upper explosive limit: Vapour pressure: Vapour density (air = 1): Density: Bulk density: Solubility(ies): Water solubility: Partition coefficient (n-octanol/water): Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties: Oxidising properties: 9.2 Other information Miscibility:

Fat solubility / solvent: Conductivity: Surface tension: Solvents content:

Not determined -135 °C 61 °C Not determined 49 g/cm3 Not determined n.a. n.a. 269 hPa (26°C) Not determined 1,5 g/cm3 (20°C) Not determined Not determined 0,012 g/l (20°C) Not determined No Not determined Not determined Product is not explosive. Not determined Not determined

Not determined Not determined Not determined Not determined 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

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

Reference leak

Endpoint	Value	Unit	Organism	Test method	Notes
					n.d.a.
	Endpoint	Endpoint Value	Endpoint Value Unit	Endpoint Value Unit Organism	Endpoint Value Unit Organism Test method



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Acute toxicity, by dermal					n.d.a.
route:					
Acute toxicity, by inhalation:	NOEL	>7500	ppm	Rat	90d
Skin corrosion/irritation:					n.d.a.
Serious eye					n.d.a.
damage/irritation:					
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.

Methoxynonafluoroisobutan	е					
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		1		-		
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

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:							
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:							



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Ozone depletion		0		
potential (ODP):				
Global warming		320		(100 a, CO2 =
potential (GWP):				1, IPCC 94)

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 octential:	BCF		71-118			,	

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

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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.	
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	



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14.5. Environmental hazards:

Transport by air (IATA)

14.2. UN proper shipping name: 14.3. Transport hazard class(es):

14.4. Packing group:

GB

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:

Comply with trade association/occupational health regulations.

Observe youth employment law (German regulation). Observe law on protection of expectant mothers (German regulation).

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.

1 - 16

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 (EC) No. 1272/2008 (CLP)	Evaluation method used
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.

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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 ACGIHAmerican 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 Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP) ATE BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

Not applicable

n.a. n.a.

Not applicable



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