

according to Regulation (EC) No 1907/2006, Article 31

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Printing date: 24.05.2024 Revision: 04.01.2023 Version number 5.0 (replaces version 4.0)

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier Identification of the substance/preparation: Special cleaner for refrigerators 312475, 312476 UFI: 2QMK-2T3Y-J507-3JU0 1.2 Relevant identified uses of the substance or mixture and uses advised against Application of the substance / the mixture Cleaning material/ Detergent Uses advised against No further relevant information available. 1.3 Details of the supplier of the safety data sheet Company/undertaking identification: **ORO-Produkte Marketing International GmbH** Im Hengstfeld 47 D-32657 Lemgo phone +49 (0)5261 28893-0 fax +49 (0)5261 28893-48 **Distributor:** BSH Home Appliances Ltd. Street: M50 Business Park Place: IRL-Dublin 12 Ballymount Telephone: 01450 2655 E-mail: mks-spares-ie@bshg.com Further information obtainable from: Quality Assurance Department E-mail: info@oro-marketing.de, www.oro-marketing.de 1.4 Emergency telephone number: Tel. +49 (0)5261 28893-0 (during office hours, Mon-Fri 8 a.m. - 4 p.m.) **SECTION 2: Hazards identification** 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 The product is not classified, according to the CLP regulation. 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Void Hazard pictograms Void Signal word Void Hazard statements Void Additional information: If medical advice is needed, have product container or label at hand. Keep out of reach of children. Regulation (EC) No 648/2004 on detergents / Labelling for contents perfumes, preservation agents (pyrithione sodium, 1,2-Benzisothiazol-3(2H)-on (BENZISOTHIAZOLINONE)) 2.3 Other hazards **Results of PBT and vPvB assessment PBT:** Not applicable.

vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures Description: Cleansi	ing agent	
Dangerous compon	ents:	
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457	propan-2-ol Flam. Liq. 2, H225; () Eye Irrit. 2, H319; STOT SE 3, H336	1-5%
CAS: 3811-73-2 EINECS: 223-296-5	pyrithione sodium Acute Tox. 3, H311; Acute Tox. 3, H331; STOT RE 1, H372; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH070	0,025-<0,25%
Additional informati	ion: For the wording of the listed hazard phrases refer to section 16	•

SECTION 4: First aid measures

4.1 Description of first aid measures
General information: No special measures required.
After inhalation: Supply fresh air; consult doctor in case of complaints.
After skin contact:
Rinse with warm water.
If skin irritation continues, consult a doctor.
After each cleaning use treatment creams, for very dry skin greasy ointments.
After swallowing:
Do not induce vomiting.
Rinse out mouth and then drink plenty of water.
Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO2, powder or water spray. Fight larger fire with alcohol resistant foam. For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture Danger of forming toxic pyrolysis products. Carbon oxides (COx)

5.3 Advice for firefighters

Protective equipment: Wear fully protective suit.

Wear self-contained respiratory protective device.



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Additional information

Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Avoid contact with the eyes.

Particular danger of slipping on leaked/spilled product.

6.2 Environmental precautions:

Prevent from spreading (e.g. by damming-in or oil barriers).

Do not allow to reach ground water/water course. Do not allow undiluted product or large quantities of it to reach sewage system.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Observe information on the label and follow instructions for use.

Avoid contact with eyes.

Avoid close or long term contact with the skin.

Wash hands before breaks and immediately after handling the product.

Keep away from food, drink and animal feedingstuffs. See Section 8 for information on personal protection equipment.

No special measures required.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities
Requirements to be met by storerooms and receptacles:
Store only in unopened original receptacles.
Information about storage in one common storage facility: Store away from foodstuffs.
Further information about storage conditions:
Keep out of reach of children.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
Storage class: 10
7.3 Specific end use(s) No further relevant information available.

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8.1 Contro	•				
Exposure					
CAS: 67-6	63-0 pro	opan-2-ol			
AGW (Ger	many)	Long-term va 2(II);DFG, Y	llue: 500 mg/m³,	200 ppm	
DNELs					
CAS: 67-6	3-0 pr	opan-2-ol			
Oral	Syster	nic effect, long	g-term exposure	26 mg/kg bw/day (General population)	
Dermal	Syster	nic effect, long	g-term exposure	319 mg/kg bw/day (General population)	
				888 mg/kg bw/day (Workers)	
Inhalative	Syster	nic effect, long	g-term exposure	89 mg/m ^³ (General population)	
				500 mg/m³ (Workers)	
PNECs					
CAS: 67-6	3-0 pr	opan-2-ol			
Water			140,9 mg/l (Fresh water)		
			140,9 mg/l (Marine water)		
Sewage tr	eatmer	nt plant (STP)	2.251 mg/l (unspecified)		
Sediment			552 mg/kg dw (Fresh water)		
			522 mg/kg dw (Marine water)		
Soil			28 mg/kg soil dw (Soil)		
Secondary poisoning, oral		160 mg/kg Futter (Predator)			
Ingredien	ts with	biological lir	nit values:		
CAS: 67-6	3-0 pr	opan-2-ol			
BGW (Ger	many)				
		Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: Expositionsende bzw. Schichtende			
		Probennanm Parameter: A	e∠eπpunkt. Expo ∖ceton		
		25 mg/l			
		gsmaterial: Urin ezeitpunkt: Expositionsende bzw. Schichtende			
Additiona	l infor			he making were used as basis.	
8.2 Expos			5		
			trols No further o	data; see section 7.	
General p	rotecti	ve and hygie	nic measures:		
			ures are to be ad	hered to when handling chemicals.	
Respirato			ive device when	high concentrations are present.	
Filter A-P2					



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Hand protection

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Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Avoid direct contact with the chemical/ the product/ the preparation by organisational measures. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. **Material of gloves**

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0,35 mm

Value for the permeation: Level 6

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Eye/face protection Goggles recommended during refilling

Body protection: Not required.

Environmental exposure controls Follow instructions for use, dosage and waste disposal.

9.1 Information on basic physical and	chemical properties	
Physical state	Fluid	
Colour:	Colourless	
Odour:	Scented	
Odour threshold:	Not determined.	
Melting point/freezing point:	0 °C	
Boiling point or initial boiling point and	d boiling	
range	Undetermined.	
Flammability	Not applicable.	
Lower and upper explosion limit		
Lower:	Not determined.	
Upper:	Not determined.	
Flash point:	>60 °C (Seta Flash Closed Cup)	
Decomposition temperature:	Not determined.	
pH at 20 °C	7-8	
Viscosity:		
Kinematic viscosity	Not determined.	
Dynamic:	Not determined.	
Solubility		
water:	Fully miscible.	

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Partition coefficient n-octanol/water (log value	
Vapour pressure:	Not relevant
	Not determined.
Density and/or relative density	
Density at 20 °C:	0,997 g/cm³
Relative density	Not determined.
Vapour density	Not relevant
	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of health	
and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
VOC (EC)	<3 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard	
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability No decomposition if used and stored according to specifications. **Conditions to avoid:** No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

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10.4 Conditions to avoid

Contact with incompatible materials. Protect from heat and direct sunlight.

10.5 Incompatible materials:

strong alkalis strong oxidising agents Strong reducing agents

10.6 Hazardous decomposition products:

No decomposition if used according to specifications. Thermal decomposition: Carbon oxides (COx)

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

Oral	ATE _{mix}	>5.000 mg/kg (calculated value)
Inhalative	ATE _{mix}	>20 mg/l (calculated value)

CAS: 67-63-0 propan-2-ol

Oral	LD50 ₅₀	5.840 mg/kg/bw (Rat) (OECD 401)
Dermal	LD ₅₀	>5.000 mg/kg/bw (Rabbit) (OECD 402)
Inhalative	LC ₅₀ /4h	>10.000 mg/l (Rat) (OECD 403)

Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met. **STOT-repeated exposure** Based on available data, the classification criteria are not met. **Aspiration hazard** Based on available data, the classification criteria are not met.

Information on likely routes of exposure
Ingestion:
Nausea
Inhalation:
No further relevant information available.
Skin Contact:
Prolonged or repeated skin contact may lead to degreasing effects on skin.
Eye Contact:
The product may cause temporary irritation if it comes into direct contact with the eyes.
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11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Based on available data, the classification criteria are not met.

CAS: 67-63-0 propan-2-ol

LC₅₀/96h 9.640 mg/l (Fish) (OECD 203)

NOEC 1.800 mg/l (Algae)

LC₅₀/24h >10.000 mg/l (Daphnia magna) (OECD 202)

General information: Not known to be hazardous to water.

12.2 Persistence and degradability

CAS: 67-63-0 propan-2-ol

Biodegradability >0,5 BOD₅/COD (Microorganisms)

12.3 Bioaccumulative potential

CAS: 67-63-0 propan-2-ol

Bioaccumulation potential 0,05 log K_{ow} (calculated value)

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Behaviour in sewage processing plants:

Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge. Before allowing large quantities to be fed into sewage plants, obtain the approval of the responsible authorities.

Other information:

General information:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow to reach ground water/water course. Do not allow undiluted product or large quantities of it to reach sewage system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

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European waste catalogue

20 01 30 detergents other than those mentioned in 20 01 29

15 01 02 plastic packaging

Uncleaned packaging:

Recommendation:

Packaging may be reused or recycled after cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product. **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information	
14.1 UN number or ID number ADR/RID, ADN, IMDG, IATA	Void
14.2 UN proper shipping name ADR/RID, ADN, IMDG, IATA	Void
14.3 Transport hazard class(es)	
ADR/RID, ADN, IMDG, IATA Class	Void
14.4 Packing group ADR/RID, IMDG, IATA	Void
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Maritime transport in bulk according instruments	to IMO Not applicable.
UN "Model Regulation":	Void

SECTION 15: Regulatory information

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

Labelling according to EC guidelines: .

Directive 2012/18/EU Not applicable

Named dangerous substances - ANNEX I None of the ingredients is listed.

Regulation (EU) No 649/2012

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

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National regulations:

Other regulations, limitations and prohibitive regulations

Other regulations (EC): Directive 94/33/EC

Other regulations (EC): Directive 98/24/EEC

Other regulations (EC): Regulation (EC) No 648/2004

Other regulations (DE): WRMG. WHG, AwVS

Relevant technical rules (D): TRGS 400, 401, 402, 500, 555, 900

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H336 May cause drowsiness or dizziness.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

EUH070 Toxic by eye contact.

Training hints Make sure that users are appropriately informed, instructed and trained.

Classification according to Regulation (EC) No 1272/2008 Calculation method: Department issuing SDS:

Quality Assurance Department

E-mail: info@oro-marketing.de, www.oro-marketing.de **Version number of previous version:** 4.0

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative AGW: Arbeitsplatzgrenzwert (Workplace exposure limit) DFG: Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, WILEY-VCH, Weinheim (German Research Foundation MAK and BAT values list, Senate Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area, WILEY-VCH, Weinheim) Y: Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden (There is no need to fear fetal impairment if the occupational exposure limit value and the biological limit value (BGW) are complied with.) EC50: effective concentration, 50 percent OECD: Organization for Economic Co-operation and Development ADN: Accord européen relativ au transport international des marchandises dangereuses par voie de navigation intérieure IBC: Intermediate bulk container MARPOL: Marine Pollution TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany) NOEC: No observed effect concentration ATE: Acute toxicity estimates AwVS: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Regulation on systems for handling with water hazardous substances) **UN: United Nations** PT2: Product type 2 EG: Europäische Gemeinschaft (European community) WHG: Wasserhaushaltsgesetz (Water Resources Act) WRMG: Wasch- und Reinigungsmittelgesetz (Detergents and Cleaning Products Act) Reg.nr.: Registration number bw: body weight dw: dry weight M: Multiplikationsfaktor (Multiplication factor) Flam. Liq. 2: Flammable liquids - Category 2 Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 3 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Skin Sens. 1: Skin sensitisation - Category 1 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Sources Safety data sheet for raw materials, eur-lex.europa.eu, echa.europa.eu

* Data compared to the previous version altered. Replaces version 3,0

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