

# Safety data sheet

according to 1907/2006/EC, Article 31

Page 1/11

Printing date: 04.01.2023

Revision: 04.01.2023

Version number 3.0

## 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  
312137, 312138, 312139, 312140, 312141

**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.,

Customer Service

Grand Union House

Old Wolverton Road

Wolverton

Milton Keynes MK12 5PT

mks-spares@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 (Pyrrhione Sodium, BENZISOTHIAZOLINONE)

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

**PBT:** Not applicable.

(Contd. on page 2)

DE

## Safety data sheet

according to 1907/2006/EC, Article 31

Page 2/11

Printing date: 04.01.2023

Revision: 04.01.2023

Version number 3.0

**Identification of the substance/preparation:** Special cleaner for refrigerators  
312137, 312138, 312139, 312140, 312141

**vPvB:** Not applicable.

(Contd. of page 1)

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

**Description:** Cleansing agent

##### Dangerous components:

CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25	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; ⚠ 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	≥0,025-<0,25%

**Additional information:** 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:** Immediately remove any clothing soiled by the product.

**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 eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

##### 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:

CO<sub>2</sub>, 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 (CO<sub>x</sub>)

(Contd. on page 3)

## Safety data sheet

according to 1907/2006/EC, Article 31

Page 3/11

Printing date: 04.01.2023

Revision: 04.01.2023

Version number 3.0

**Identification of the substance/preparation:** Special cleaner for refrigerators  
312137, 312138, 312139, 312140, 312141

(Contd. of page 2)

### 5.3 Advice for firefighters

#### Protective equipment:

Wear fully protective suit.

Wear self-contained respiratory protective device.

#### 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.

Inform respective authorities in case of seepage into water course or sewage system.

### 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 the 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.

**Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.

### 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

(Contd. on page 4)

## Safety data sheet

according to 1907/2006/EC, Article 31

Page 4/11

Printing date: 04.01.2023

Revision: 04.01.2023

Version number 3.0

**Identification of the substance/preparation:** Special cleaner for refrigerators  
312137, 312138, 312139, 312140, 312141

(Contd. of page 3)

**7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Exposure limit values:

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

AGW (Germany) Long-term value: 500 mg/m<sup>3</sup>, 200 ppm  
2(II);DFG, Y

##### DNELs

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

Oral	500	26 mg/kg bw/day (General population)
Dermal	501	319 mg/kg bw/day (General population) 888 mg/kg bw/day (Workers)
Inhalative	502	89 mg/m <sup>3</sup> (General population) 500 mg/m <sup>3</sup> (Workers)

##### PNECs

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

600	140,9 mg/l (Fresh water) 140,9 mg/l (Marine water)
610	2.251 mg/l (unspecified)
620	552 mg/kg dw (Fresh water) 522 mg/kg dw (Marine water)
630	28 mg/kg soil dw (Soil)
640	160 mg/kg Futter (Predator)

##### Ingredients with biological limit values:

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

BGW (Germany)	25 mg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Aceton
	25 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Aceton

**Additional information:** The lists valid during the making were used as basis.

#### 8.2 Exposure controls

**Appropriate engineering controls** No further data; see item 7.

##### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

##### Respiratory protection:

Use suitable respiratory protective device when high concentrations are present.

Filter A-P2

(Contd. on page 5)

## Safety data sheet

according to 1907/2006/EC, Article 31

Page 5/11

Printing date: 04.01.2023

Revision: 04.01.2023

Version number 3.0

**Identification of the substance/preparation:** Special cleaner for refrigerators  
312137, 312138, 312139, 312140, 312141

(Contd. of page 4)

### Hand protection

Avoid direct contact with the chemical/ the product/ the preparation by organisational measures.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves** Nitrile rubber, NBR

### Penetration time of glove material

The exact break through 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:  $\geq 0,35$  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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Colour:</b>	Colourless
<b>Odour:</b>	Scented
<b>Odour threshold:</b>	Not determined.
<b>Melting point/freezing point:</b>	Undetermined.
<b>Boiling point or initial boiling point and boiling range</b>	Undetermined.
<b>Flammability</b>	Not applicable.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Flash point:</b>	>60 °C (Seta Flash Closed Cup)
<b>Decomposition temperature:</b>	Not determined.
<b>pH at 20 °C</b>	7-8
<b>Viscosity:</b>	
<b>Kinematic viscosity</b>	Not determined.
<b>Dynamic:</b>	Not determined.
<b>Solubility</b>	
<b>water:</b>	Soluble.
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	0,997 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.

(Contd. on page 6)

## Safety data sheet

according to 1907/2006/EC, Article 31

Page 6/11

Printing date: 04.01.2023

Revision: 04.01.2023

Version number 3.0

**Identification of the substance/preparation:** Special cleaner for refrigerators  
312137, 312138, 312139, 312140, 312141

(Contd. of page 5)

### 9.2 Other information

#### Appearance:

**Form:** Fluid

#### Important information on protection of health and environment, and on safety.

**Auto-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

**Desensitised explosives** 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.

**10.3 Possibility of hazardous reactions** No dangerous reactions known.

#### 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

(Contd. on page 7)

## Safety data sheet

according to 1907/2006/EC, Article 31

Page 7/11

Printing date: 04.01.2023

Revision: 04.01.2023

Version number 3.0

**Identification of the substance/preparation:** Special cleaner for refrigerators  
312137, 312138, 312139, 312140, 312141

(Contd. of page 6)

### 10.6 Hazardous decomposition products:

No decomposition if used according to specifications.

Thermal decomposition:

Carbon oxides (CO<sub>x</sub>)

## 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	311	>5.000 mg/kg (calculated value)
Inhalative	312	>20 mg/l (calculated value)

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

Oral	100	5.840 mg/kg/bw (Rat) (OECD 401)
Dermal	200	>5.000 mg/kg/bw (Rabbit) (OECD 402)
Inhalative	300	>10.000 mg/l (Rat) (OECD 403)

#### CAS: 3811-73-2 Pyrithione sodium

Oral	100	1.208 mg/kg/bw (Rat) (OECD 401)
Dermal	ATE D	>2.000 (unspecified)
Inhalative	300	1,08 mg/l (Rat) (EU B.2)

**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.

### 11.2 Information on other hazards

#### Endocrine disrupting properties

None of the ingredients is listed.

DE

(Contd. on page 8)



## Safety data sheet

according to 1907/2006/EC, Article 31

Page 8/11

Printing date: 04.01.2023

Revision: 04.01.2023

Version number 3.0

**Identification of the substance/preparation:** Special cleaner for refrigerators  
312137, 312138, 312139, 312140, 312141

(Contd. of page 7)

### 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

400	9.640 mg/l (Fish) (OECD 203)
403	>10.000 mg/l (Daphnia magna) (OECD 202)
412	1.800 mg/l (Algae)

##### CAS: 3811-73-2 Pyrethione sodium

400	0,00767 mg/l (Fish) (OECD 202)
401A	0,022 mg/l (Daphnia magna)
402	0,46 mg/l (Algae)
412AB	0,08 mg/l (Algae)

#### 12.2 Persistence and degradability

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

700	>0,5 BOD <sub>5</sub> /COD (Microorganisms)
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##### CAS: 3811-73-2 Pyrethione sodium

701	>70 % (Microorganisms) (OECD 301 B)
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**12.3 Bioaccumulative potential** No further relevant information available.

**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.

(Contd. on page 9)



## Safety data sheet

according to 1907/2006/EC, Article 31

Page 9/11

Printing date: 04.01.2023

Revision: 04.01.2023

Version number 3.0

**Identification of the substance/preparation:** Special cleaner for refrigerators  
312137, 312138, 312139, 312140, 312141

(Contd. of page 8)

### European waste catalogue

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

15 01 02 | plastic packaging

### Uncleaned packaging:

#### Recommendation:

Disposal must be made according to official regulations.

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 to IMO instruments

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.

(Contd. on page 10)

## Safety data sheet

according to 1907/2006/EC, Article 31

Page 10/11

Printing date: 04.01.2023

Revision: 04.01.2023

Version number 3.0

**Identification of the substance/preparation:** Special cleaner for refrigerators  
312137, 312138, 312139, 312140, 312141

(Contd. of page 9)

### 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.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

**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](mailto:info@oro-marketing.de), [www.oro-marketing.de](http://www.oro-marketing.de)

#### 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

vPvB: very Persistent and very Bioaccumulative

EC50: effective concentration, 50 percent

OECD: Organization for Economic Co-operation and Development

ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

(Contd. on page 11)

## Safety data sheet

according to 1907/2006/EC, Article 31

Page 11/11

Printing date: 04.01.2023

Revision: 04.01.2023

Version number 3.0

**Identification of the substance/preparation:** Special cleaner for refrigerators  
312137, 312138, 312139, 312140, 312141

(Contd. of page 10)

IBC: Intermediate bulk container

MARPOL: Marine Pollution

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

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](http://eur-lex.europa.eu), [echa.europa.eu](http://echa.europa.eu)

\* **Data compared to the previous version altered.** Replaces version 2,0

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