

Refrigerator & freezer cleaner

Revision n. 4
Revision date: 16/03/2017

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY /UNDERTAKING*

1.1. Product identifier

Mixture identification:	
Trade name:	Refrigerator & freezer cleaner
Trade code:	[FRI101] 484000008421 - [FRI102] 484000008491 - [FRI R00] 484000008770 [FRI PL0] 484000008947 - [FRI TR0] 484000008948 - [FRI N00] 484000008840

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

Recommended use: Refrigerator and freezer cleaner.
CONSUMER USE.
Uses advised against:
Do not use for purposes other than those listed.

1.3. Details of the supplier of the safety data sheet

Company:
Synt Chemical S.r.l.
Via Armando Gagliani, 5
40069 Zola Predosa (BO) - ITALY
Tel. +39 051 752332 – Fax +39 051 754945
Competent person responsible for the safety data sheet:
laboratorio@syntchemical.it

1.4. Emergency telephone number

For urgent safety information call the Anti-Poison Center of your country. Check the emergency list on page 10.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)
The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
Adverse physicochemical, human health and environmental effects:
No other hazards

2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
Hazard pictograms: None
Hazard statements: None
Precautionary statements: None
Special Provisions: None
Special provisions according to Annex XVII of REACH and subsequent amendments: None
Ingredients (Regulation EC n. 648/2004):
<5% non-ionic surfactants, cationic surfactants. Perfume (LIMOMENE).

2.3. Other hazards

vPvB Substances: None - PBT Substances: None
Other Hazards:
No other hazards

SDS121200470UK



SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
2 - 3 %	1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER	Index number: 603-064-00-3 CAS: 107-98-2 EC: 203-539-1 REACH No.: 01-2119457435-35	 2.6/3 Flam. Liq. 3 H226  3.8/3 STOT SE 3 H336
0.5 - 1 %	ALCOHOLS, C12-14, ETHOXYLATED PROPOXYLATED	CAS: 68439-51-0	4.1/C3 Aquatic Chronic 3 H412

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

No data available for the mixture. See section 11 for symptoms and effects of the substances.

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

Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray jet.

Carbon dioxide (CO₂).

Powder.

Foam.

Extinguishing media which must not be used for safety reasons:

Water spray jet.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.
Remove persons to safety.
See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated area, away from heat, flames, sparks and other sources of ignition. Avoid direct exposure to sunlight.
Keep away from food, drink and feed.
Incompatible materials:
See paragraph 10 below.
Instructions as regards storage premises:
Adequately ventilated premises.

7.3. Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER - CAS: 107-98-2

TLV TWA - 100 ppm - 375 mg/m³

TLV STEL - 150 ppm - 568 mg/m³

DNEL Exposure Limit Values

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER - CAS: 107-98-2

Worker Industry: 369 mg/m³ - Consumer: 43.9 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 553.5 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 50.6 mg/kg - Consumer: 18.1 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 3.3 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER - CAS: 107-98-2

Target: Intermittent releases - Value: 100 mg/l

Target: Freshwater sediments - Value: 100 mg/l

Target: Marine water sediments - Value: 5.2 mg/kg

Target: Soil (agricultural) - Value: 5.49 mg/kg

Target: Marine water - Value: 1 mg/l

8.2. Exposure controls

Eye protection:

Not needed during normal use of the packaged product.

During handling activities, wear safety goggles with side shields (EN 166).

Protection for skin:

Not needed during normal use of the packaged product.

During handling activities, wear work clothes with long sleeves and safety footwear for professional use in category I (refer to Directive 89/686/EEC and standard EN 344). After removing protective clothing, wash affected skin with soap and water.

Protection for hands:

Not needed during normal use of the packaged product.

If a prolonged contact with the product is expected, it's recommended to protect your hands with work gloves resistant to penetration (ref. Standard EN 374). Final choice of the gloves material must also evaluate the process of using the product and any other products derived from them. It also recalled that the latex gloves could cause sensitization effects.

Respiratory protection:

Not needed during normal use of the packaged product.

If you exceed the threshold value (e.g. TLV-TWA) of one or more of the substances in the preparation, wear filter EN 14387 type ABEK. The use of respiratory protective equipment is necessary in the absence of technical measures to limit worker exposure. Nonetheless, the masks provide limited protection.

In the case where the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in case of emergency, wear an open circuit compressed-air self-respirator (Standard EN 137) or an external air-uptake respirator to be used with full face mask, half face mask or mouthpiece (ref. Standard EN 138).

Thermal Hazards:

None

Environmental exposure controls:

See section 7 and 13.

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Appearance and colour:	yellow liquid	--	--
Odour:	perfumed lemon	--	--
Odour threshold:	Not Relevant	--	--
pH:	2,6	--	--
Melting point / freezing point:	Not Relevant	--	--
Initial boiling point and boiling range:	Not Relevant	--	--
Flash point:	>60 ° C	--	--
Evaporation rate:	Not Relevant	--	--
Solid/gas flammability:	not applicable (liquid)	--	--
Upper/lower flammability or explosive limits:	Not Relevant	--	--
Vapour pressure:	Not Relevant	--	--
Vapour density:	Not Relevant	--	--
Relative density:	1.0 g/ml	--	--
Solubility in water:	soluble	--	--
Solubility in oil:	Not Relevant	--	--
Partition coefficient (n-octanol/water):	Not Relevant	--	--
Auto-ignition temperature:	Not Relevant	--	--
Decomposition temperature:	Not Relevant	--	--
Viscosity:	Not Relevant	--	--
Explosive properties:	not explosive on the basis of the composition	--	--
Oxidizing properties:	non-oxidizing on the basis of the composition	--	--

9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	Not Relevant	--	--
Fat Solubility:	Not Relevant	--	--

SECTION 10: Stability and reactivity

10.1. Reactivity

In normal condition of use and storage (see section 7) dangerous reactions are not expected.

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

In normal condition of use and storage dangerous reactions are not expected . Avoid contact with incompatible substances.

10.4. Conditions to avoid

Avoid overheating, electrostatic discharge and all sources of ignition.

10.5. Incompatible materials

Oxidizing agents.
Alkalis

10.6. Hazardous decomposition products

In case of fire or decomposition may spread gas and vapors potentially harmful for health as CO₂, carbon mono-oxide and other irritating fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER - CAS: 107-98-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 6100 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 13000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 6 mg/l

Test: LC0 - Route: Inhalation - Species: Rat > 7000 ppm - Duration: 6h

f) carcinogenicity:
Test: NOAEC - Route: Inhalation - Species: Mouse = 3000 ppm
g) reproductive toxicity:
Test: NOAEL - Route: Inhalation - Species: Rat = 300 ppm
ALCOHOLS, C12-14, ETHOXYLATED PROPOXYLATED - CAS: 68439-51-0
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg
Test: LD50 - Route: Skin - Species: Rat > 5000 mg/kg
b) skin corrosion/irritation:
Test: Skin Irritant Positive
c) serious eye damage/irritation:
Test: Eye Irritant - Species: Rabbit Negative
d) respiratory or skin sensitisation:
Test: Skin Sensitization - Species: Guinea pig Negative
e) germ cell mutagenicity:
Test: Mutagenesis - Species: Generic Bacteria Negative

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.
Not classified for environmental hazards

Based on available data, the classification criteria are not met

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER - CAS: 107-98-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 20800 mg/l - Duration h: 96

Endpoint: LC50 - Species: Daphnia = 23300 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 168

ALCOHOLS, C12-14, ETHOXYLATED PROPOXYLATED - CAS: 68439-51-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: *Leuciscus idus* > 1 mg/l - Duration h: 48 - Notes: DIN 38412 (15)

Endpoint: EC50 - Species: *Daphnia* > 1 mg/l - Duration h: 24 - Notes: OECD 202 (1)

Endpoint: EC50 - Species: *Desmodesmus subspicatus* > 1 mg/l - Duration h: 72 - Notes: OECD 201

b) Aquatic chronic toxicity:

Endpoint: EC10 - Species: *Desmodesmus subspicatus* > 0.1 mg/l - Duration h: 72 - Notes: OECD 201

c) Bacteria toxicity:

Endpoint: EC0 - Species: *Pseudomonas putida* > 100 mg/l - Notes: OECD 209, DIN 38412 (8)

12.2. Persistence and degradability

ALCOHOLS, C12-14, ETHOXYLATED PROPOXYLATED - CAS: 68439-51-0

Biodegradability: Readily biodegradable

12.3. Bioaccumulative potential

ALCOHOLS, C12-14, ETHOXYLATED PROPOXYLATED - CAS: 68439-51-0

Accumulation in organisms is not to be expected.

12.4. Mobility in soil

ALCOHOLS, C12-14, ETHOXYLATED PROPOXYLATED - CAS: 68439-51-0

Adsorption to solid soil phase is possible.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

14.6. Special precautions for user

Not applicable.

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

Not applicable.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) 2015/830

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 40

Restrictions related to the substances contained:

Restriction 30

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out:

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

All sections of this MSDS have been revised.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.

Refrigerator & freezer cleaner






















INGREDIENTS SHEET

COMPONENT IUPAC	INCI NAME	CAS	Pharmacopea name	EINECS	%
Water	AQUA	7732-18-5	aqua	231-791-2	> 10
1-methoxy-2-propanol	METHOXYISO- PROPANOL	107-98-2	-	203-539-1	1-10
Alcohols, c12-14, ethoxylated propoxylated	PPG-5- LAURETH-5	68439-51-0	-	-	1-10
l-(+)-lactic acid	-	79-33-4	-	201-196-2	0,1-1
Didecyldimethylammonium chloride	DIDECYL- DIMONIUM CHLORIDE	7173-51-5	-	230-525-2	0,1-1
Propan-2-ol	ISOPROPYL ALCOHOL	67-63-0	-	200-661-7	0,1-1
PARFUM	-	-	-	-	0,1-1
(R)-p-mentha-1,8-diene	LIMONENE	5989-27-5	-	227-813-5	<0,1
COLORANT	-	-	-	-	<0,1

Emergency telephone numbers

For urgent safety information call the Anti-Poison Center of your country:

	COUNTRY	CUSTOMER SERVICE NR.	ANTI-POISON CENTER NR.
	AUSTRIA	(0043) 050 6700 200	(0043) 01 406 43 43
	BELGIUM	(0032) (0)2 263 33 33	(0032) 070 245 245
	BULGARIA	(00359) 0700 100 68	
	CROAZIA	(00385) 0130 40 333	
	CZECK REP.	(00420) 840 111 313	(00420) 224 91 54 02
	DENEMARK	(0045) 44880222	(0045) 82121212
	FINLAND	(09) 61336 235	(09) 471977
	FRANCE	(0033) 0892 700 150	(0033) 01 40 05 48 48
	GERMAN	(0049) 0711 93533655	(0049) 0761 19240
	GREECE	(0030) 2109946400	(0030) 2107793777
	HOLLAND	(0031) (0)76 530 6400	(0031) 030 274 8888
	HUNGARY	(0036) 1 999 5000	(0036) 80 20 11 99
	IRELAND	(00353) 0844 815 8989	(00353) 1 8092566
	ITALY	(0039) 199 580 480	(0039) 02 66101029
	KAZAKISTAN	(007) 8 800 100 5731	
	NORWAY	(0047) 227 82580	(0047) 22 59 13 00
	POLAND	(0048) 801 900 666	Warszawa: (0048) 22 619 66 54 Gdańsk: (0048) 58 682 04 04 Poznań: (0048) 61 847 69 46 Kraków: (0048) 12 411 99 99
	PORTUGAL	(00351) 707 203 204	(00351) 808 250143
	ROMANIAN	(0040) 0372 117 745	
	RUSSIA	(007) 8 800 100 57 31	
	SERBIA	(00381) 11 30 65 674	
	SLOVAKIA	(00421) 0850 003 007	(00421) 2 54774166
	SPAIN	(0034) 902 203 204	(0034) 915 620 420
	SWEDEN	(0046) 0771 751570	(0046) 08 331231
	SWISS	(0041) 0848 801 005	(0041) 145
	UK	(0044) 0844 815 8989	(0044) 0845 46 47 (0044) 020 7188 0600
	TURKEY	(0090) 444 5010	
	UCRAIN	(00380) 0 800 30 20 30	