



SAFETY DATA SHEET
CONCENTRATED POWER FREEZE
FOR REFRIGERATION SYSTEMS

Issued on 09/11/2015 - Rel. # 3 on 08/04/2021

1 / 11

In conformity to Regulation (EU) 2020/878

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product code : CONCENTRATED POWER FREEZE FOR REFRIGERATION SYSTEMS

Trades code : 11.129R

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

PRODUCTS FOR REFRIGERATION COMPRESSORS

Sectors of use:

Industrial Manufacturing[SU3], Public domain[SU22]

Product category:

ADDITIVE REFRIGERATING CIRCUITS

Process categories:

PRODUCTS FOR REFRIGERATION COMPRESSORS

Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

ELKE SRL Italia

Via XXV Aprile 202, Nichelino (TO) Italy

Tel 011.9622412 - info@elke-ac.com

1.4. Emergency telephone number

Centro Antiveleni Niguarda 02 66101029 (CAV Ospedale Niguarda Ca' Granda -Milano) Centro Antiveleni di Firenze 055 7947819 (CAV Ospedale Careggi - Firenze) Centro Antiveleni di Roma 06 49978000 (CAV Policlinico Umberto I - Roma) Centro Antiveleni di Napoli 081 7472870 (CAV Ospedale Cardarelli - Napoli)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

None

Hazard Class and Category Code(s):

Nonhazardous

Hazard statement Code(s):

Nonhazardous



SAFETY DATA SHEET

CONCENTRATED POWER FREEZE FOR REFRIGERATION SYSTEMS

Issued on 09/11/2015 - Rel. # 3 on 08/04/2021

2 / 11

In conformity to Regulation (EU) 2020/878

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):
None

Hazard statement Code(s):
Nonhazardous

Supplemental Hazard statement Code(s):
EUH210 - Safety data sheet available on request.

Precautionary statements:
Nothing in particular.

Content of VOC ready to use condition: 8,00 %

2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

No information on other hazards

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
propan-2-ol	$\geq 1 < 5\%$	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	603-117-00-0	67-63-0	200-661-7	

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area.
If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):.



SAFETY DATA SHEET

CONCENTRATED POWER FREEZE FOR REFRIGERATION SYSTEMS

Issued on 09/11/2015 - Rel. # 3 on 08/04/2021

3 / 11

In conformity to Regulation (EU) 2020/878

Wash thoroughly with soap and running water.

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water for at least 10 minutes.

Ingestion:

Not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine

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

No data available.

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

No data available.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Advised extinguishing agents:

Water spray, CO₂, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Wear gloves and protective clothing

6.1.2 For emergency responders:

Wear gloves and protective clothing

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.



SAFETY DATA SHEET

CONCENTRATED POWER FREEZE FOR REFRIGERATION SYSTEMS

Issued on 09/11/2015 - Rel. # 3 on 08/04/2021

4 / 11

In conformity to Regulation (EU) 2020/878

6.2. Environmental precautions

Contain spill with earth or sand.

If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the authorities.

Discharge the remains in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 For containment:

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.

Prevent it from entering the sewer system.

6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

Nothing in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors

At work do not eat or drink.

See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.

Keep containers upright and safe by avoiding the possibility of falls or collisions.

Store in a cool place, away from sources of heat and direct exposure of sunlight.

7.3. Specific end use(s)

Industrial Manufacturing:

Handle with extreme caution.

Store in a well ventilated place away from heat sources.

Public domain:

Handle with care. Store in a ventilated area and away from heat, keep the container tightly closed.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Related to contained substances:

propan-2-ol:

Gli ambienti di lavoro devono essere adeguatamente aerati.

Ove possibile, installare fonti di aspirazione localizzata ed efficaci sistemi di ricambio d'aria generale.

Se queste misure non sono sufficienti a mantenere le concentrazioni dei materiali particolati e dei vapori di solventi al di



SAFETY DATA SHEET

CONCENTRATED POWER FREEZE FOR REFRIGERATION SYSTEMS

Issued on 09/11/2015 - Rel. # 3 on 08/04/2021

5 / 11

In conformity to Regulation (EU) 2020/878

sotto del limite di esposizione, sarà necessario far uso di adeguati mezzi di protezione delle vie respiratorie.

Valori limiti per l'esposizione professionale

PROPAN-2-OLO ; No. CAS : 67-63-0

provenienza :TLV/STEL (EC)

Valore limite :983 mg/m3/ 400 ppm

Versione :

provenienza) :TLV/TWA (EC)

Valore limite : 492 mg/m3/ 200 ppm

Valori DNEL/DMEL e PNEC

DNEL/DMEL

Tipo di valore limite :

Via di esposizione :DNEL/DMEL (DNEL Consumatore, Sistemico) (PROPAN-2-OLO ; No. CAS : 67-63-0)

Frequenza di esposizione :Dermico

Valore limite :A lungo termine (ripetuto)

Tipo di valore limite :319 mg/kg

Via di esposizione :DNEL/DMEL (DNEL Consumatore, Sistemico) (PROPAN-2-OLO ; No. CAS : 67-63-0)

Frequenza di esposizione :Inalazione

Valore limite :A lungo termine (ripetuto)

Tipo di valore limite :89 mg/m3

Via di esposizione :DNEL/DMEL (DNEL Consumatore, Sistemico) (PROPAN-2-OLO ; No. CAS : 67-63-0)

Frequenza di esposizione :Per via orale

Valore limite : A lungo termine (ripetuto) - 26 mg/kg

Tipo di valore limite :DNEL/DMEL (Lavoratore, Sistemico) (PROPAN-2-OLO ; No. CAS : 67-63-0)

Via di esposizione : Dermico

Frequenza di esposizione :A lungo termine (ripetuto)

Valore limite :888 mg/kg

Tipo di valore limite :DNEL/DMEL (Lavoratore, Sistemico) (PROPAN-2-OLO ; No. CAS : 67-63-0)

Via di esposizione :Inalazione

Frequenza di esposizione :A lungo termine (ripetuto)

Valore limite :500 mg/m3

PNEC

Tipo di valore limite :PNEC acquatico, acqua dolce (PROPAN-2-OLO ; No. CAS : 67-63-0)

Valore limite :140,9 mg/l

Tipo di valore limite :PNEC acquatico, rilascio periodico (PROPAN-2-OLO ; No. CAS : 67-63-0)

Valore limite :140,9 mg/l

Tipo di valore limite :PNEC acquatico, acqua marina (PROPAN-2-OLO ; No. CAS : 67-63-0)

Valore limite :140,9 mg/l

Tipo di valore limite :PNEC sedimento, acqua dolce (PROPAN-2-OLO ; No. CAS : 67-63-0)

Valore limite :552 mg/kg

Tipo di valore limite :PNEC sedimento, acqua marina (PROPAN-2-OLO ; No. CAS : 67-63-0)

Valore limite :552 mg/kg

Tipo di valore limite :PNEC terreno (PROPAN-2-OLO ; No. CAS : 67-63-0)

Valore limite :28 mg/kg

Tipo di valore limite :PNEC Avvelenamento secondario (PROPAN-2-OLO ; No. CAS : 67-63-0)

Valore limite :160 mg/kg

Tipo di valore limite :PNEC impianto di depurazione (STP) (PROPAN-2-OLO ; No. CAS : 67-63-0)

Valore limite :2251 mg/l

8.2. Exposure controls

Appropriate engineering controls:



SAFETY DATA SHEET

CONCENTRATED POWER FREEZE FOR REFRIGERATION SYSTEMS

Issued on 09/11/2015 - Rel. # 3 on 08/04/2021

6 / 11

In conformity to Regulation (EU) 2020/878

Industrial Manufacturing:
No specific monitoring foreseen

Public domain:
No specific monitoring foreseen

Individual protection measures:

(a) Eye / face protection
Not needed for normal use.

(b) Skin protection

(i) Hand protection
Not needed for normal use.

(ii) Other
Wear normal work clothing.

(c) Respiratory protection
Not needed for normal use.

(d) Thermal hazards
No hazard to report

Environmental exposure controls:
Use according to good working practices to avoid pollution into the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	Liquido limpido	
Colour	Typical	
Odour	Caratteristico	
Odour threshold	not determined	
pH	irrelevant	
Melting point/freezing point	not determined	
Initial boiling point and boiling range	not determined	
Flash point	>60 °C	ASTM D92
Evaporation rate	irrelevant	
Flammability (solid, gas)	not determined	
Upper/lower flammability or explosive limits	not determined	
Vapour pressure	not determined	
Vapour density	not determined	
Relative density	0,85 - 1,000 Kg/dm3	
Solubility(ies)	Liposolubile	
Water solubility	Insolubile	
Partition coefficient: n-octanol/water	not determined	



SAFETY DATA SHEET
CONCENTRATED POWER FREEZE
FOR REFRIGERATION SYSTEMS

Issued on 09/11/2015 - Rel. # 3 on 08/04/2021

7 / 11

In conformity to Regulation (EU) 2020/878

Physical and chemical properties	Value	Determination method
Auto-ignition temperature	not determined	
Decomposition temperature	not determined	
Viscosity	> 40 cSt a 40 °C	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

9.2. Other information

Content of VOC ready to use condition: 8,00 %

SECTION 10. Stability and reactivity

10.1. Reactivity

No reactivity hazards

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Nothing to report

10.5. Incompatible materials

Nothing in particular.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

ATE(mix) oral = ∞
ATE(mix) dermal = ∞
ATE(mix) inhal = ∞



SAFETY DATA SHEET

CONCENTRATED POWER FREEZE FOR REFRIGERATION SYSTEMS

Issued on 09/11/2015 - Rel. # 3 on 08/04/2021

8 / 11

In conformity to Regulation (EU) 2020/878

- (a) acute toxicity: based on available data, the classification criteria are not met.
- (b) skin corrosion/irritation based on available data, the classification criteria are not met.
- (c) serious eye damage/irritation: based on available data, the classification criteria are not met.
- (d) respiratory or skin sensitization: based on available data, the classification criteria are not met.
- (e) germ cell mutagenicity: based on available data, the classification criteria are not met.
- (f) carcinogenicity: based on available data, the classification criteria are not met.
- (g) reproductive toxicity: based on available data, the classification criteria are not met.
- (h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.
- (i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not met.
- (j) aspiration hazard: based on available data, the classification criteria are not met.

Related to contained substances:

propan-2-ol:

ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation of its vapour.

INHALATION RISK: A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster.

EFFECTS OF SHORT-TERM EXPOSURE: The substance is irritating to the eyes and the respiratory tract. The substance may cause effects on the central nervous system, resulting in depression. Exposure far above the OEL may result in unconsciousness.

EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: The liquid defats the skin.

LD50 (rat) Oral (mg/kg body weight) = 2100

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2100

11.2. Information on other hazards

No data available.

SECTION 12. Ecological information

12.1. Toxicity

Related to contained substances:

propan-2-ol:

Ecotoxicity: Ecotoxicity in water (LC50): 100000 mg/l 96 hours [Fathead Minnow]. 64000 mg/l 96 hours [Fathead Minnow].

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.



SAFETY DATA SHEET
CONCENTRATED POWER FREEZE
FOR REFRIGERATION SYSTEMS

Issued on 09/11/2015 - Rel. # 3 on 08/04/2021

9 / 11

In conformity to Regulation (EU) 2020/878

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No PBT/vPvB ingredient is present

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No adverse effects

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.
Recover if possible. Operate according to local or national regulations

SECTION 14. Transport information

14.1. UN number

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None



SAFETY DATA SHEET

CONCENTRATED POWER FREEZE FOR REFRIGERATION SYSTEMS

Issued on 09/11/2015 - Rel. # 3 on 08/04/2021

10 / 11

In conformity to Regulation (EU) 2020/878

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

It is not intended to carry bulk

SECTION 15. Regulatory information

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

No data available.

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information

16.1. Other information

Description of the hazard statements exposed to point 3

H225 = Highly flammable liquid and vapour.

H319 = Causes serious eye irritation.

H336 = May cause drowsiness or dizziness.

Classification based on data of all mixture components

GENERAL BIBLIOGRAPHY:

- Council Regulation (EC) 1907/2006 of the European Parliament (REACH)
- Regulation (EC) 1272/2008 of the European Parliament (CLP) and subsequent updates
- Council Regulation (EC) no 758/2013 of the European Parliament
- Regulation (EC) no 2020/878 of the European Parliament
- Regulation (EC) No 528/2012 European Parliament and subsequent updates
- Council Regulation (EC) 648/2004 of the European Parliament and subsequent updates
- The Merck Index
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS - Fiche Toxicologique
- Patty-Industrial Hygiene and Toxicology
- N.I. Sax-Dangerous properties of Industrial Materials-7 Ed., 1989

Note to the user:

the information in this tab are based on knowledge available to us on the date of the latest version.

The user must ensure the fitness and completeness of the information in relation to the specific use of the product.

You should not interpret it as a guarantee of any specific property of the product.

For the use of the product does not fall under our direct control, the obligation of the user to observe under their own



SAFETY DATA SHEET
CONCENTRATED POWER FREEZE
FOR REFRIGERATION SYSTEMS

Issued on 09/11/2015 - Rel. # 3 on 08/04/2021

11 / 11

In conformity to Regulation (EU) 2020/878

liability laws and regulations on hygiene and safety. Do not assume liability for improper use.

This tab replaces and cancels all previous
