



SAFETY DATA SHEET

INDICATORE

Issued on 12/11/2015 - Rel. # 1 on 12/11/2015

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In conformity to Regulation (EU) 2015/830

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

1.1. Product identifier

Product code : INDICATORE

Trades code : 11.709A

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:

INDICATORS

Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Company:

ELKE S.r.l. Via XXV Aprile 202 10042 Nichelino (To) Italia.

Tel. n. +39 011 9622412

Competent person responsible for the safety data sheet:

Domenico Amosso info@elke-ac.com

1.4. Emergency telephone number

Centro Antiveleni - Ospedale di Niguarda - Milano - Tel. 02/66101029

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

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

Pictograms:

GHS02, GHS07

Hazard Class and Category Code(s):

Flam. Liq. 2, Eye Irrit. 2, STOT SE 3

Hazard statement Code(s):

H225 - Highly flammable liquid and vapour.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

The product easy inflames if subordinate to an ignition source.

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If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.
Warning: Vapours inhalation may cause sleepiness and giddiness

2.2. Label elements

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

Pictogram, Signal Word Code(s):
GHS02, GHS07 - Danger



Hazard statement Code(s):
H225 - Highly flammable liquid and vapour.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.

Supplemental Hazard statement Code(s):
not applicable

Precautionary statements:

Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.

P261 - Avoid breathing fume/vapours.

P264 - Wash thoroughly with water after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 - Call a doctor if you feel unwell.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P370+P378 - In case of fire: Use CO₂, SAND and dust to extinguish.

Storage

P403+P235 - Store in a well-ventilated place. Keep cool.

Disposal

P501 - Dispose of contents/container in accordance with local and national regulations

Contains:

SOLVENTE IPA/SEC 973

Content of VOC ready to use condition: 0,00 %

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

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3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

| Substance | Concentration | Classification | Index | CAS | EINECS | REACH |
|----------------------|---------------|---------------------------------------------------------------|-------|-----|--------|-------|
| SOLVENTE IPA/SEC 973 | > 75 <= 100% | Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336 | | | | |

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 room.
CALL A PHYSICIAN.

If breathing has stopped, give artificial respiration.

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

Take contaminated clothing Immediately off.

In case of contact with skin, wash immediately with water.

Warning: This product is toxic to skin contact. Consult a physician.

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

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately

Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

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

If eye irritation persists: Get medical advice/attention.

Call a doctor if you feel unwell.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Advised extinguishing agents:

In the case of fire use: CO2, SAND and dust to settle.

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.

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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 mask, gloves and protective clothing.

6.1.2 For emergency responders:

Wear mask, 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.

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:

Rapidly recover the product, wear a mask and protective clothing

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

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Wear protective gloves/protective clothing/eye protection/face protection.
In residential areas do not use on large surfaces.
Do not smoke at work
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.
Keep containers tightly closed.
Always store in well ventilated areas.
Never close the container tightly, leave a chance to vent
Keep away from open flames, sparks and heat sources. Avoid direct sunlight exposure.

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

SOLVENTE IPA/SEC 973
**** Not translated ****

8.2. Exposure controls



Appropriate engineering controls:
Industrial Manufacturing:
No specific monitoring foreseen

Public domain:
No specific monitoring foreseen

Individual protection measures:

(a) Eye / face protection
Wear mask

(b) Skin protection

(i) Hand protection
Due to the lack of testing it can not be recommended any type of material for the glove handle the product.
The glove material has to be impermeable and resistant to the product.
Selection of the glove material on consideration of the penetration times, rates of

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characteristics

variable from one manufacturer to another. As the product is a preparation of several substances, the stability of the glove material can not be calculated in advance and has to be found out

- the glove material Penetration time: Request by the glove supplier The exact break trough time has to be observed.

(ii) Other

When handling the pure product wear full protective skin clothing.

(c) Respiratory protection

Use adequate protective respiratory equipment (EN 141)

(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 | |
| Odour | Tipico | |
| Odour threshold | not determined | |
| pH | undefined | |
| Melting point/freezing point | undefined | |
| Initial boiling point and boiling range | 82° C | |
| Flash point | 13° C | ASTM D92 |
| Evaporation rate | not determined | |
| Flammability (solid, gas) | not determined | |
| Upper/lower flammability or explosive limits | Inferiore :2,0 Vol% Superiore:12,0 Vol% | |
| Vapour pressure | a 20 °C: 43hPa | |
| Vapour density | Più pesante dell'aria | |
| Relative density | 0,780 - 0,790 (Tipica) | |
| Solubility(ies) | not determined | |
| Water solubility | Completa | |
| Partition coefficient: n-octanol/water | undefined | |
| Auto-ignition temperature | 425 °C | |
| Decomposition temperature | undefined | |
| Viscosity | Dinamicità e Cinematica:Non definito | |
| Explosive properties | Non esplosivo,possibilità di formazione di miscele di vapori/aria esplosiv | |
| Oxidising properties | not determined | |

9.2. Other information

Content of VOC ready to use condition: 0,00 %

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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

Avoid contact with combustible materials. The product could catch fire.
heat, open flames, sparks or hot surfaces.

10.5. Incompatible materials

Avoid contact with strong oxidizing agents.

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 = ∞

- (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: If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.
 - (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: Warning: Vapours inhalation may cause sleepiness and giddiness
 - (i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not met.
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(j) aspiration hazard: based on available data, the classification criteria are not met.

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**** Not translated ****

SECTION 12. Ecological information

12.1. Toxicity

SOLVENTE IPA/SEC 973

**** Not translated ****

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

12.2. Persistence and degradability

SOLVENTE IPA/SEC 973

**** Not translated ****

12.3. Bioaccumulative potential

SOLVENTE IPA/SEC 973

**** Not translated ****

12.4. Mobility in soil

SOLVENTE IPA/SEC 973

**** Not translated ****

12.5. Results of PBT and vPvB assessment

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

12.6. 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. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

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14.1. UN number

1987

ADR exemption because compliance with the following characteristics:

Combination packagings: per inner packaging 5 L per package 30 Kg

Inner packagings placed in shrink-wrapped or stretch-wrapped trays: per inner packaging 5 L per package 20 Kg



14.2. UN proper shipping name

ALCOHOLS, N.O.S.

14.3. Transport hazard class(es)

Class : 3

Label : Onu

Tunnel restriction code : D/E

Limited quantities : 5 L

EmS : F-E, S-D

14.4. Packing group

III

14.5. Environmental hazards

Product is not environmentally hazardous

Marine polluting agent : Not

14.6. Special precautions for user

The transport must be carried out by authorised vehicles carrying dangerous goods in accordance with the requirements of the current edition of the agreement and the provisions A.D.R national regulations.

The transport must be carried out in the original packaging and in packages that are made from materials resistant to the content and not likely to generate with this dangerous reactions. Employees to the loading and unloading of dangerous goods have received proper training on the risks presented by prepared and on possible procedures to be taken in the event of emergency situations

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

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**** Not translated ****

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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 2015/830 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 liability laws and regulations on hygiene and safety. Do not assume liability for improper use.

This tab replaces and cancels all previous
