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|  |  | **SAFETY DATA SHEET** |  |
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| **SECTION 1. Identification of the substance/mixture and of the company/undertaking** |  |
|
|  | **1.1. Product identifier** |  |
|  |  |
|  |
|  | Product code : INDICATORETrades code : 11.709A |
|  |
|  | **1.2. Relevant identified uses of the substance or mixture and uses advised against** |  |
|  |
| PRODUCTS FOR REFRIGERATION COMPRESSORSSectors of use:Industrial Manufacturing[SU3], Public domain[SU22]Product category:INDICATORSUses advised againstNo 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 - DangerHazard 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 applicablePrecautionary 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 973Content 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 XIIINo 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 |  |  |  |  |
|  |
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| **SECTION 4. First aid measures** |  |
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|  | **4.1. Description of first aid measures** |  |
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|  | 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. |
|  |
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| **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 smokeWear 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. |
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| **SECTION 8. Exposure controls/personal protection** |
|
|  | **8.1. Control parameters** |  |
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|  |
|  | SOLVENTE IPA/SEC 973\*\*\*\* Not translated \*\*\*\* |
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|  | **8.2. Exposure controls** |  |
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|  |  |  |  |  |  |  |  |  |
|   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 glovehandle 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 diffusion and degradation.• Material of gloves: The selection of suitable gloves not only depends on the material, but also on other quality |  |  |  |
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|  | characteristicsvariable from one manufacturer to another. As the product is a preparation of several substances, thestability 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.  |
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| **SECTION 9. Physical and chemical properties** |
|
|  | **9.1. Information on basic physical and chemical properties** |  |
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|  |
|  | **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/irritationbased 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 exposurebased 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. SOLVENTE IPA/SEC 973\*\*\*\* Not translated \*\*\*\*   |
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| **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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| **SECTION 14. Transport information** |
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|  | **14.1. UN number** |  |
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|  | 1987ADR exemption because compliance with the following characteristics: Combination packagings: per inner packaging 5 L per package 30 KgInner packagings placed in skrink-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 : 3Label : OnuTunnel restriction code : D/ELimited quantities : 5 LEmS : F-E, S-D |
|  |
|  | **14.4. Packing group** |  |
|  |
| III |
|  |
|  | **14.5. Environmental hazards** |  |
|  |
| Product is not environmentally hazardousMarine 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 |
|  |
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| **SECTION 15. Regulatory information** |
|
|  | **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture** |  |
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|  | SOLVENTE IPA/SEC 973\*\*\*\* Not translated \*\*\*\* |
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|  | **15.2. Chemical safety assessment** |
|  |
|  |  No chemical safety assessment was carried out by the supplier |
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| **SECTION 16. Other information** |
|
|  | **16.1. Other information** |  |
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|  |
|  | 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 componentsGENERAL 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., 1989Note 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 |
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