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|  |  | **SAFETY DATA SHEET** |  |
|  |
| **NEUTRALIZZATORE** |
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| **SECTION 1. Identification of the substance/mixture and of the company/undertaking** |  |
|
|  | **1.1. Product identifier** |  |
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|  |
|  | Product code : NEUTRALIZZATORE Trades code : 11.709DChemical Name: potassium hydroxide CAS: 1310-58-3 - EC No: 215-181-3 - Index No: 019-002-00-8 |
|  |
|  | **1.2. Relevant identified uses of the substance or mixture and uses advised against** |  |
|  |
| Neutralizing alkaline solutionSectors of use:Industrial Manufacturing[SU3], Public domain[SU22]Product category:Products such as ph-regulators, flocculants, precipitants, neutralization agents, other unspecificUses 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** |  |
|  |  |
|  |
|  |  CAS 1310-58-3 CEE 019-002-00-8 EINECS 215-181-3  2.1.1 Classification according to Regulation (EC) No 1272/2008:  Pictograms: GHS05  Hazard Class and Category Code(s): Skin Corr. 1A  Hazard statement Code(s): H314 - Causes severe skin burns and eye damage.   |
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|  |  Corrosive product: causes severe skin burns and eye damage.  |
|  |
|  | **2.2. Label elements** |  |
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|  |  |  |
| Labelling according to Regulation (EC) No 1272/2008:Pictogram, Signal Word Code(s): GHS05 - DangerHazard statement Code(s): H314 - Causes severe skin burns and eye damage.Supplemental Hazard statement Code(s): not applicablePrecautionary statements:Prevention P260 - Do not breathe fume/vapours. P264 - Wash thoroughly with water after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection.Response P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a doctor if you feel unwell. P363 - Wash contaminated clothing before reuse.Disposal P501 - Dispose of contents/container in compliance with local or national regulations. |
|  |  |
|  |
|  | **2.3. Other hazards** |  |
|  |
| The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIIIThe use of this chemical agent involves the obligation of "risk assessment" by the employer in accordance with the provisions of Legislative Decree n. 81 April 9, 2008. Workers exposed to this chemical agent should not be subject to health surveillance if the results of the risk assessment show that, depending on the type and amount of hazardous chemical agent and the method and frequency of exposure to the agent, you only a "moderate risk" for the health and safety of workers and that the measures envisaged in the same legislative decree are sufficient to reduce the risk. |
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| **SECTION 3. Composition/information on ingredients** |
|
|  | **3.1 Substances** |  |
|  |  |
|  |
|  | Refer to paragraph 16 for full text of hazard statements |
|  |
|  | **Substance** | **Concentration** |  | **Classification** | **Index** | **CAS** | **EINECS** |  | **REACh** |
|  | potassium hydroxide | > 0,1 <= 1% | Acute Tox. 4, H302; Skin Corr. 1A, H314 | 019-002-00-8 | 1310-58-3 | 215-181-3 |  |
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|  | **3.2 Mixtures** |
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|  | Irrilevant |  |
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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 area. If you feel unwell seek medical advice.Direct contact with skin (of the pure product).: Take contaminated clothing Immediately off. In case of contact with skin, wash immediately with water. Consult a physician immediatelyDirect 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: Drink water with egg white; do not give bicarbonate. Absolutely do not induce vomiting or emesis. Seek medical advice immediately. |
|  |
|  | **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** |  |
|  |
| Immediately call a doctor if you feel unwell. |
|  |
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| **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. |
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|  |  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  |
|  |
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| **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 Wear protective gloves/protective clothing/eye protection/face protection. In residential areas do not use on large surfaces. 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. |
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|  |  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. |
|  |
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| **SECTION 8. Exposure controls/personal protection** |
|
|  | **8.1. Control parameters** |  |
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|  | Idrossido di potassio\*\*\*\* Not translated \*\*\*\* |
|  |
|  | **8.2. Exposure controls** |  |
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| Appropriate engineering controls:Industrial Manufacturing:No specific monitoring foreseenPublic domain:No specific monitoring foreseenIndividual protection measures: (a) Eye / face protection Wear mask (b) Skin protection (i) Hand protection Wear rubber gloves that are approved according to EN 374. Use protective gloves. (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 reportEnvironmental exposure controls: Use according to good working practices to avoid pollution into the environment. |  |  |  |
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| **SECTION 9. Physical and chemical properties** |
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|  | **9.1. Information on basic physical and chemical properties** |
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|  |
|  | **Physical and chemical properties** | **Value** | **Determination method** |
| Appearance | Liquido, limpido |  |
| Odour | Caratteristico,praticamente inodore |  |
| Odour threshold | not determined |  |
| pH | >12 |  |
| Melting point/freezing point | Congelamento 0 °C |  |
| Initial boiling point and boiling range | 100 °C |  |
| Flash point | nonflammable |  |
| Evaporation rate | not determined |  |
| Flammability (solid, gas) | not determined |  |
| Upper/lower flammability or explosive limits | not determined |  |
| Vapour pressure | not determined |  |
| Vapour density | not determined |  |
| Relative density | 1,000 ca. |  |
| Solubility(ies) | insolubile in olio minerale |  |
| Water solubility | completa |  |
| Partition coefficient: n-octanol/water | not determined |  |
| Auto-ignition temperature | > 100 °C |  |
| Decomposition temperature | >100 °C |  |
| Viscosity | not determined |  |
| Explosive properties | not explosive |  |
| Oxidising properties | non disponibile |  |
|  |
|  | **9.2. Other information** |  |
|  |
|  |  No data available. |  |
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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 |
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|  | **10.4. Conditions to avoid** |
|  |
|  |  Nothing to report |
|  |
|  | **10.5. Incompatible materials** |  |
|  |
| Avoid contact with acids, aluminum, zinc, tin, copper and their alloys. |
|  |
|  | **10.6. Hazardous decomposition products** |  |
|  |
|  Does not decompose when used for intended uses. |
|  |
|  |  |
| **SECTION 11. Toxicological information** |
|
|  | **11.1. Information on toxicological effects** |  |
|  |  |
|  |
|  |  (a) acute toxicity: based on available data, the classification criteria are not met. (b) skin corrosion/irritationCorrosive product: causes severe skin burns and eye damage. (c) serious eye damage/irritation: Corrosive product: causes severe skin burns and eye damage. (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 exposurebased 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:potassium hydroxide:Routes of Entry: Absorbed through skin. Inhalation. Ingestion.Toxicity to Animals: Acute oral toxicity (LD50): 273 mg/kg [Rat].Chronic Effects on Humans:MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells.May cause damage to the following organs: upper respiratory tract, skin, eyes.Other Toxic Effects on Humans:Extremely hazardous in case of inhalation (lung corrosive).Very hazardous in case of skin contact (corrosive, irritant), of eye contact (corrosive), of ingestion, .Special Remarks on Toxicity to Animals: Not available.Special Remarks on Chronic Effects on Humans: May affect genetic material based on animal data.Special Remarks on other Toxic Effects on Humans:Acute Potential Health Effects:Skin: Causes severe skin irritation and burns.Eyes: Causes severe eye irritation and burns. May cause irreversible eye injury.Inhalation: Causes severe irritation and burns of the respiratory tract and mucous membranes. Irritation may lead to chemical pneumonitisIngestion: Harmful if swallowed. May cause severe and permanent damage to the digestive tract. Causes severe irritation and burns of the gastrointestinal (digestive) tract with abdominal pain, vomiting and possible death. May cause perforation of the digestive tract.Chronic Potential Health Effects:Chronic contact with dilute solutions of potassium hydroxide can cause dermatitis. Inhalation can produce chronic productive cough, and shortness of breath. |
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| **SECTION 12. Ecological information** |
|
|  | **12.1. Toxicity** |  |
|  |  |
|  |
|  |  Related to contained substances:potassium hydroxide:Ecotoxicity: Ecotoxicity in water (LC50): 80 mg/l 24 hours [Mosquito Fish].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 products of degradation are less toxic than the product itself.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. |
|  |
|  | **12.4. Mobility in soil** |  |
|  |
|  No data available. |
|  |
|  | **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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|  | 1719ADR 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 |
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|  |
|  | **14.2. UN proper shipping name** |  |
|  |
| CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide) |
|  |
|  | **14.3. Transport hazard class(es)** |  |
|  |
| Class : 8Label : OnuTunnel restriction code : ELimited quantities : 5 LEmS : F-A, S-B |
|  |
|  | **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 |
|  |
|  |  |
| **SECTION 15. Regulatory information** |
|
|  | **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture** |  |
|  |  |
|  |
|  |  No data available. |
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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 H302 = Harmful if swallowed. H314 = Causes severe skin burns and eye damage.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., 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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