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MSDS Name: sodium hydroxide, solid catalog numbers: BP359-212, BP359-500, S318-1, S318-10, S318-100, S318-10LC, S318-3, S318-3LC, S318-5, S318-50, S318-500, S318-50LC, S320-1, S320-10, S320-3, S320-50, S320-500, S392-12, S392-12LC, S392-212, S392-50, S392SAM1, S392SAM2, S392SAM3, S399-1, S399-212, S399-50, S399-500 0, S612-3, S612-3500LB, S612-50, S612-500LB, S613-10, S613-3, S613-50, S613-500LB Synonyms: Caustic sodas; Do soda; Sodium hydrate; Lye. Company Identification: Fisher Scientific 1 Reagent Lane Fair Lawn, NJ 07410 For information, Call: 201-796-7100 Emergency Number: 201-796-7100 To assist CHEMTREC, call: 800-424-9300 For CHEMTREC International Aid, call: 703-527-3887 Emergency OVERVIEW Appearance: White. Danger! Causes burns to the eyes and skin. Causes burns to the digestive system and respiratory tract. Hygroscopic (absorbs moisture from the air). Targeted organs: eyes, skin, mucous membranes. Potential effects on eye health: Causes eye burns. It can cause blindness. Can cause chemical conjunctivitis and corneal damage. Skin: Causes skin burns. Can cause deep, penetrating skin ulcers. Admission: can cause serious and irreversible damage to the digestive tract. Causes burns to the gastrointestinal tract. It can cause perforation of the digestive tract. Causes severe pain, nausea, vomiting, diarrhea and shock. Inhalation: Irritation can lead to chemical pneumonia and pulmonary edema. Causes severe irritation of the upper respiratory tract with cough, burns, difficulty breathing and possible coma. Causes chemical burns to the airways. Chronic: Prolonged or repeated skin contact can cause dermatitis. The consequences can be delayed. Section 4 - RTECS First Aid Measures: CAS- 1310-73-2: WB4900000 CAS 497-19-8: V4050000 LD50/LC50: CAS 1310-73-2: test Draize, rabbit, eye: 400 ug; Mild; Draize test, rabbit, eye: 1% Heavy; Drais test, rabbit, eye: 50 ug/24H Heavy; Drais test, rabbit, eye: 1 mg/24H Heavy; Test Draize, rabbit, skin: 500 mg/24H Heavy. KASS 497-19-8: Test Draize, rabbit, eye: 100 mg/24H Moderate; Draize test, rabbit, eye: 50 mg heavy; Test Draize, rabbit, skin: 500 mg/24H Soft; Inhalation, mouse: LC50 and 1200 mg/m3/2H; Inhalation, rat: LC50 and 2300 mg/m3/2H; Oral, mice: LD50 and 6600 mg/kg; Oral, mice: LD50 and 6600 mg/kg; Oral, rats: LD50 and 4090 mg/kg; Carcinogenicity: CAS- 1310-73-2: Not specified ACGIH, IARC, NTP or CA Prop 65. CA 497-19-8: Not listed ACGIH, IARC, NTP or CA Prop 65. Epidemiology: No information found teratogenicity: No information found reproductive effects: No information found Mutagenicity: See the actual entry into RTECS for full information. Neurotoxicity: No information Found Other Studies: Section 12 12 U.S. environmental information FEDERAL TSCA CAS 1310-73-2 is listed in the TSCA inventory. KASS 497-19-8 is listed in the TSCA inventory. A list of health and safety reports None of the chemicals are included in the Health and Safety Reports List. The rules of chemical testing None of the chemicals in this product is under the rule of chemical testing. Section 12b None of the chemicals are listed in section 12b. TSCA Significant new rule of use None of the chemicals in this material has SNUR according to TSCA. CERCLA Hazardous Substances and Corresponding RS CAS 1310-73-2: 1000 pounds of final RS; 454 kg of the final RS SARA Section 302 Extremely Hazardous Substances None of the chemicals in this product have TPP. SARA Codes CAS No. 1310-73-2: immediate, reactive. CAS No 497-19-8: immediately. Section 313 No chemicals are reported under article 313. Clean Air Act: This material does not contain dangerous air pollutants. This material does not contain Class 1 ozone depletions. This material does not contain Class 2 ozone depletions. Clean Water Act: CAS 1310-73-2 is listed as a dangerous substance under the CWA. None of the chemicals in this product are listed as priority pollutants under the CWA. None of the chemicals in this product are listed as toxic contaminants according to CWA. OSHA: None of the chemicals in this product are considered very dangerous OSHA. STATE CAS 1310-73-2 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts. THE 497-19-8 is not on the state's ca, PA, MN, MA, FL or NJ lists. California Prop 65 California No significant risk level: None of the chemicals in this product are listed. European/International European Labelling Rules in accordance with EU Directives Hazard Symbols: C Risk Phrases: R 35 Causes of Severe Burns. Safety Phrases: S 26 In case of eye contact, immediately rinse with plenty of water and seek medical advice. S 37/39 Wear suitable gloves and eye/face protection. S 45 In the event of an accident or if you feel unwell, seek immediate medical advice (show the label where possible). WGK (Water Hazard/Protection) CAS 1310-73-2: 1 CAS 497-19-8: 1 Canada - DSL/NDSL CAS 1310-73-2 is included in the DSL list of Canada. KASS 497-19-8 is included in the Canadian DSL list. Canada - WHMIS This product is classified as WHMIS E. This product has been classified in accordance with the Danger Criteria of the Controlled Products Regulations, and MSDS contains all the information required by these rules. The Canadian ingredient disclosure list of CAS 1310-73-2 is on the Canadian ingredient disclosure list. KASS 497-19-8 is included in the Canadian ingredient disclosure list. Section 16 - Additional information April 21, 2014 Used many years ago in soaps, sodium hydroxide - also known as Lye - is still a widely used chemical today. Its use ranges from food processing to refining, but it can be a very dangerous chemical. Here we look at its usual use, as well as the specific properties that make sodium hydroxide a safety risk. (Photo: Sodium 6mol 6mol Corrosive Chemicals Laboratory Maticulous) What is sodium hydroxide and how is it used? Sodium hydroxide is an odorless, inorganic compound that serves as a metal base for many types of chemicals, especially in the paper and textile industry, food industry, soaps, detergents and cleaning products. Made from the chemical formula NaOH - alkaline, which is made from hydroxyl ion attached to sodium ion - sodium hydroxide is a white solid substance that can come in several forms, including pellets, flakes, pellets and prepared solutions. Solutions mixed with sodium hydroxide come at different concentrations, the most common of which is a 50 percent saturated solution with water. The benefits of sodium hydroxide hydroxide are very soluble in water, ethanol and methanol, making it an excellent compound for mixing with these liquids. It is also deliquescent, meaning it has strong absorption capabilities, so it easily and quickly absorbs moisture and carbon dioxide in the air. Because of these chemical attributes, the main uses of sodium hydroxide are: As an acovx solution Use in the chemical industry Creation of sodium sodium salts Detergents pH regulation of aluminum production Increase the alkalinity of the mixture neutralizing acid food processing (peeling vegetables, processing cocoa, soaking olives) Removal of impurities from oil As an additive in drainage formulas Part of the process of paper manufacture Dangers associated with the use of hydroxide but is not currently classified as a carcinogen. However, this can lead to serious damage when not handled safely. The two most common ways to get sodium hydroxide injury are either by contact (skin or eyes), or by inhaling vapor containing a high level of compound. The following injuries may occur when come into direct contact with undiluted sodium hydroxide: ulcer nasal strokes Irritation of the skin, eyes, lungs or nasal passages of the Eyes and skin burns, sometimes severe esophageal burns when swallowed blindness Best practices with sodium hydroxide Wearing the equipment can help prevent serious injuries from sodium hydroxide. Here are some tips on what to wear both at home and at work: Breathing Boots Long Rubber Gloves Industrial Aprons Chemical EyeGlassEs Face Shield Using Fountain to Wash Your Eyes In Place Use of fast-filled systems in workspaces In addition to protective gear, NIOSH recommends that maximum exposure to sodium hydroxide should be no higher than 10 mg. Safety comes first when processing sodium hydroxide sodium hydroxide present at many points is almost inevitable. While this does not pose a great threat to the vast majority of people, it is a chemical that can cause serious harm in certain circumstances. By paying attention and taking the necessary measures for physical protection, you can make sure that your exposure does not leave life-damaging. Learn more about sodium hydroxide and more by visiting our MSDS online library. MSDS Name: sodium hydroxide, solid catalog numbers: BP359-212, BP359-500, S318-1, S318-10, S318-100, S318-10LC, S318-3, S318-3LC, S318-5, S318-50, S318-500, S318-50LC, S320-1, S320-10, S320-3, S320-50, S320-500, S392-12, S392-12LC, S392-212, S392-50, S392SAM1, S392SAM2, S392SAM3, S399-1, S399-212, S399-50, S399-500 0, S612-3, S612-3500LB, S612-50, S612-500LB, S613-10, S613-3, S613-50, S613-500LB Synonyms: Caustic sodas; Do soda; Sodium hydrate; Lye. Company Identification: Fisher Scientific 1 Reagent Lane Fair Lawn, NJ 07410 For information, Call: 201-796-7100 Emergency Number: 201-796-7100 To assist CHEMTREC, call: 800-424-9300 For CHEMTREC International Aid, call: 703-527-3887 Emergency OVERVIEW Appearance: White. Danger! Causes burns to the eyes and skin. 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