| Sodium Hydroxide 1 | .000N | | | Sodium Hydroxide 1.000N |
|--|--|---|--|---|
| Material Safety Data Sheet Section 1. Product and Company Identification | | | | material may produce general deterioration of health by an accumulation in one or many human organs. |
| Product Name Sodium Hydroxide 1.000N Manufacturer EMD Chemicals Inc. P.O. Box 70 480 Democrat Road Gibbstown, NJ 08027 | Product VW3222 Code Effective 3/4/2003 Date | | Section 4. First A Eye Contact Skin Contact | id Measures Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately. In case of contact, immediately flush skin with plenty of water for at least |
| Prior to January 1, 2003 EMD Chemicals Inc. EM Industries, Inc. or EM Science, Division of EM Industries, Inc. For More Information Call 856–423–6300 Technical Service | In Case of Emergency Call 800–424–9300 CHEMTREC | | Inhalation | 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emoliant. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately. If inhaled, remove to fresh air. If not breathing, give artificial respiration. |
| Monday-Friday: 8:00 AM – 5:00 PM Synonym Sode Lye | (USA) 613–996–6666 CANUTEC (Canada) 24 Hours/Day: 7 Days/Week | | Ingestion | If breathing is difficult, give oxygen. Get medical attention immediately. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouht to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately. |
| Material Uses Laboratory Reagent Chemical Caustic Solution Family | | _ | Section 5. Fire Fig Flammability of th Product | ghting Measures |
| Section 2. Composition and Information on Ingredients Component SODIUM HYDROXIDE Water | CAS # % by Weight 1310–73–2 4 7732–18–5 96 | | Auto-ignition Temperature Flash Points Flammable Limits Products of | Not applicable. Not applicable. Not applicable. Not applicable. |
| Section 3. Hazards Identification Physical State and Liquid. Appearance Emergency DANGER 'POISON ! | | _ | Combustion Fire Hazards in Presence of Variou Substances | Not applicable. |
| Overview CAUSES EYE AND SKIN BURNS. HARMFUL IF SWALLOWED. Routes of Entry Inhalation. Ingestion. Potential Acute Health Effects | | | in Presence of Various Substance Fire Fighting Medi and Instructions | s Risks of explosion of the product in presence of mechanical impact: No. ia Not applicable. |
| Eyes Hazardous in case of eye contact (corros Skin Hazardous in case of skin contact (corros burns. Inhalation No known acute effects of this product n Ingestion Hazardous in case of ingestion. Potential Chronic Health Effects | sive). Skin contact produces | | (Fire) Special Remarks o Fire Hazards | n Can react with certain metals to release explosive hydrogen gas. |
| Carcinogenic This material is not known to cause can Effects Additional information See Toxicologica Medical Conditions Repeated or prolonged contact with spr Aggravated by irritation and severe skin irritation. Rep Overexposure: spray mist may produce respiratory tra attacks of bronchial infection. Repeated | I Information (section 11) ay mist may produce chronic eye eated or prolonged exposure to et irritation leading to frequent | | - | ntal Release Measures Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Stop leak if without risk. Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain. Do not get water inside container. Do not |
| | | 1 | | |
| Sodium Hydroxide 1 touch spilled material. Use water spray o water spray to reduce vapors. Prevent en confined areas; dike if needed. Call for a that the product is not present at a conce TLV on the MSDS and with local author Spill Kit Information The following EM SCIENCE SpillSolv Information SX120 Caustic Treatment Kit | urtain to divert vapor drift. Use try into sewers, basements or ssistance on disposal. Be careful ntration level above TLV. Check ities. | | | Sodium Hydroxide 1.000N TW:: 2 mg/m3 INRS (France, 1996). VME: 2 mg/m3 National Authority for Occupational Safety/Health (Ireland, 1999), STEL: 2 mg/m3 Arbeidsinspectie (Netherlands, 1999), MAC-C: 2 mg/m3 |
| Section 7. Handling and Storage Handling Do not ingest. Do not breathe vapor or ronly with adequate ventilation. Wash the Storage Keep container in a cool, well-ventilated | oroughly after handling. | | | TGG 8 uur: 2 mg/m3 N-Arbeidstylsinet (Norway, 1996). AN: 2 mg/m3 AFS (Sweden, 1996). KTV: 2 mg/m3 EH40-OES (United Kingdom (UK), 1997). |
| Section 8. Exposure Controls/Personal Protection Engineering Provide exhaust ventilation or other eng airborne concentrations of vapors below exposure limits. Personal Protection Eyes Face shield. | | | Water | STEL: 2 mg/m3 NIOSH REL (United States, 1994). CEL: 2 mg/m3 OSHA Final Rule (United States, 1989). CEL: 2 mg/m3 Not available. |
| Body Full suit. Respiratory Vapor respirator. Be sure to use an appr equivalent. Wear appropriate respirator Hands Gloves. Feet Bools. Protective Clothing | | | Odor Color Physical State and Appearance | • |
| (Pictograms) Personal Protection Splash goggles. Full suit. Vapor respiration in Case of a Large self-contained breathing apparatus shout Spill the product. Suggested protective clothing a specialist BEFORE handling this product Name Product Name Exposure Limits | Ild be used to avoid inhalation of ng might not be sufficient; consult | | Molecular Weight Molecular Formula pH Boiling/Condensat Point Melting/Freezing | |
| SODIUM HYDROXIDE ACGIH (United States). CEIL: 2 mg/m3 OSHA (United States). CEIL: 2 mg/m3 AUVA (Austria, 1995). | n3 8 times per shift, Period: 5 | | Point Specific Gravity Vapor Pressure Vapor Density Odor Threshold Evaporation Rate LogKow | The only known value is 2.13 (Water = 1) (SODIUM HYDROXIDE). Not available. Not available. Not available. 0.36 (Water) compared to (n–BUTYL ACETATE=1) Not available. |
| TWA: 2 mg/m3 Belgium Minister of Labo CEIL: 2 mg/m3 VL: 2 mg/m3 BAUA (Germany 1997). Spitzenbegrenzung: 2 mg/ | | | Solubility Section 10. Stabil Stability and Reactivity Conditions of | Soluble in water. ity and Reactivity The product is stable. Not available. |
| MAK: 2 mg/m3 DK-Arbejdstylsinet (Der Loftværdi: 2 mg/m3 GV: 2 mg/m3 Tyterveyslaitos (Finland, | nmark, 1996). | | Instability Incompatibility wi Various Substance | th Slightly reactive to reactive with organic materials, metals, acids. |
| Tyterveyslaitos (Finland, | 1998). | 3 | | chloro organic compunds, peroxide Incompatible products Zinc |

| Hazardous Not Decomposition Products Hazardous Wil Polymerization Wil Section 11. Toxicologics RTECS Number: Chronic Effects on Cont Humans lens Acute Effects on Haza Humans Haza burn Synergetic Products Not (Toxicologically) Urritancy Drai Sensitzation Sligi Carcinogenic This Effects | Im Hydroxide WB4900000 or ZC0110000 50: Not available. 50: Not available. 51: Not available. 52: Not available. 53: Not available. 54: Not available. 54: Not available. 54: Not available. 54: Not available. 54: Not available. 54: Not available. 55: Not available. 55: Not available. 56: Not available. 57: Not availab | | IMO/IMDG Classification ICAO/IATA Classification Section 15. Regula | UN number: UN1824 Packing Group: II RQ: Not applicable. Not available. Not available. Not available. Internation TSCA 8(b) inventory: SODIUM HYDROXIDE; Water |
|--|---|--------------------------|--|---|
| Products Hazardous Wil Polymerization Section 11. Toxicologica RTECS Number: Toxicity LD55 Chronic Effects on Cont Humans lens Acute Effects on Cont Humans Haza Burn Synergetic Products Not (Toxicologically) Irritancy Drais Sensitization Slig Carcinogenic This Effects Toxicity to Not Reproductive | al Information Im Hydroxide WB4900000 rr ZC0110000 i0: Not available. 10: Not available. tains material which may cause damage to the following organs: eye, or cornea. ardous in case of eye contact (corrosive). Causes eye burns. ardous in case of skin contact (corrosive). Skin contact produces Is. Hazardous in case of ingestion. | | IMO/IMDG Classification ICAO/IATA Classification Section 15, Regult U.S. Federal | Not available. Not available. Not available. Intory Information |
| Section 11. Toxicologica RTECS Number: Sodiu Water Toxicity LD5: Chronic Effects on Cont Humans lens: Acute Effects on Haza Humans Humans Haza Humans | Im Hydroxide WB4900000 or ZC0110000 50: Not available. 50: Not available. 51: Not available. 52: Not available. 53: Not available. 54: Not available. 54: Not available. 54: Not available. 54: Not available. 54: Not available. 54: Not available. 55: Not available. 55: Not available. 56: Not available. 57: Not availab | | ICAO/IATA Classification Section 15. Regul U.S. Federal | atory Information |
| Sodiu Water Toxicity LD55 LC50 LC50 Chronic Effects on Haza Humans lens: Acute Effects on Haza Humans Haza burn: Synergetic Products Not (Toxicologically) Irritancy Drai: Sensitization Sligl Carcinogenic This Effects Not Reproductive | r ZC0110000 50: Not available. 50: Not available. 50: Not available. tains material which may cause damage to the following organs: eye, or cornea. ardous in case of eye contact (corrosive). Causes eye burns. ardous in case of sinc iontact (corrosive). Skin contact produces Is. Hazardous in case of ingestion. | | U.S. Federal | |
| Toxicity LDS LCS Chronic Effects on Cont Humans lens Acute Effects on Haza Humans Hazz burn Synergetic Products Not (Toxicologically) Irritancy Drais Sensitization Slig Carcinogenic This Effects Toxicity to Not Reproductive | 50: Not available. 10: Not available. tains material which may cause damage to the following organs: eye, or cornea. ardous in case of eye contact (corrosive). Causes eye burns. ardous in case of skin contact (corrosive). Skin contact produces I. Hazardous in case of ingestion. | | | |
| BOD5 and COD Not a Toxicity of the The Products of Biodegradation Section 13. Disposal Co EPA Waste DO07 Number Treatment Spec Wasta ALW ASS ANE Section 14. Transport 1 DOT Classification Prop | available. Information available. available. e products of degradation are less toxic than the product itself. Insiderations U2 Cified technology– Neutralize to pH 6–9. Contact your local permitted te disposal site (TSD) for permissible treatments sites. WAYS CONTACT PERMITTED WASTE DISPOSER (TSD) TO UURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE D FEDERAL REGULATIONS. | | WHMIS (Canada) International Regulations EINECS DSCL (EEC) International Lists | SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: SODIUM HYDROXIDE SARA 311/312 MSDS distribution – chemical inventory – hazard dentification: SODIUM HYDROXIDE: Immediate (Acute) Health Hazard SARA 31 toxic chemical notification and release reporting: No products were found. Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: SODIUM HYDROXIDE Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found. Clean SD-1B: Material causing other toxic effects (VERY TOXIC). CLASS E: Corrosive liquid. CEPA DSL: SODIUM HYDROXIDE; Water This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information. SODIUM HYDROXIDE 215–185–5 Water 231–791–2 R34-Causes burns. Australia (NICNAS): SODIUM HYDROXIDE; Water Japan (MITI): SODIUM HYDROXIDE; Water Korea (TCCL): SODIUM HYDROXIDE; Water Philippines (RA6969): SODIUM HYDROXIDE; Water China: No products were found. |
| Penr | Sodium Hydroxide 1.000N nsylvania RTK: SODIUM HYDROXIDE: (environmental hazard, eric environmental hazard) | | | L'inna: No products were round. |
| Mass | sachusetta FTK: SODIUM HYDROXIDE v Jersey: Sodium Hydroxide 1.000N 'ornia prop. 65: No products were found. | | | |
| Section 16. Other Infor | National Fire Protection | 0 Health ³ | | |
| Reactivity | | | | |
| believes to be reliable, ar | d herein are based upon technical data that EMD Chemicals Inc. re offered for information purposes only and as a guide to the ıry and emergency handling of the material by a properly trained | | | |
| person having the necess supplement to other info determinations of suitabi proper use, storage and c and customers and the p NO REPRESENTATIO! INCLUDING MERCHA | sary technical skills. Users should consider these data only as a rmation gathered by them and must make independent illity and completeness of information from all sources to assure disposal of these materials and the safety and health of employees rotection of the environment. EMD CHEMICALS INC. MAKES N OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, NTABLITY OR FITNESS FOR A PARTICULAR USE, WITH FORMATION HEREIN OR THE PRODUCT TO WHICH THE | | | |