BARIUM CHLORIDE, 0.1 M/ 0.2N SOLUTION

Barium Chloride, Water Solution

C.A.S. No.

Mixture. up to 4 Lt.

SECTION

NGREDIENTS OF MIXTURES

LEAST

SLIGHT MODERATE

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NFPA HAZARD RATING

800-424-9300 Day 716-226-6177

CHEMTREC

Unit Size

Formula Synonyms Chemical Product

Principal Component(s)

Barium Chloride: (CAS No. 10361-37-2)

MATERIAL SAFETY DATA SHEET

911 Commerce Court Buffalo Grove, IL 60089-2375

MSDS No. Effective Date

WLC9027X

may cause hazardous decomposition products to be produced as In fire conditions, water may evaporate from this solution, which should be worn for protection against barium-containing dust, A NIOSH/MSHA-approved self-contained breathing apparatus 24 HOUR EMERGENCY ASSISTANCE Slightly less than 1 None established TLV Units See Section V. September 3, 1998 표 Reactivity HMIS * Health Upper Fire 0 1 0 Emergency and First Aid Procedures Effects of Overexposure **Decomposition Products** Stability | For laboratory use only. Not for drug, food or household use. Keep out of reach of children Other Protective Protective Gloves Waste Disposal Method material is released or spilled Steps to be taken in case Hazardous Incompatibility Threshold Limited Value SECTION V Hevision No. 1 Other Precautions Hazardous Polymerization Keep container tightly closed when not in use in Handling & Storing SECTION VII recautions to be Taken /entilation | Mechanical (General) Respiration Protection Materials to Avoid) SECTION XIIVOI IOEK SECTION VIII May Occur sulfate. Neutralize the excess acid using sodium bicarbonate. Flush residue to sewer with copious amounts of water. Barium chloride solution may also be disposed of by contracting with a licensed waste disposal service. Dispose of by treating barium chloride solution with dilute sulfuric acid solution to precipitate the barium to barium Stable Unstable Local Exhaust Will Not Occur Date 9/3/98 Goggles, smock, apron, proper gloves, eye wash station Read label on container before using. Do not were contact tenses when working with chemicals None needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator. × Bromine Trifluoride and 2-Furan percarboxylic acid, violent reaction Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. TANZONO USTAZZA BIRKA WELL SPECKIPHECKINOS SPECIAL PROTECTION INFORMATION MAY BE HARMFUL OR FATAL IF SWALLOWED. Oral intake may cause weakness, salivation and nausea, followed by vomiting and diarrhea. Patient may become cold and experience varying degrees of paralysis. INHALATION: may become cold and experience varying degraes of paralysis. INHALATIO May be tarmful, with symptoms similar to those of oral intake. Observe allowable limits. EYES AND SKIN CONTACT: Not usually severe, but may cause irritation to sensitive individuals. 0.5 mg/m3 as Barium (ACGIH, 1992-93). U.S. H Conditions to Avoid not breathing, give artificial respiration. If breathing is difficult, give oxygen. then wash with mild soap and water. INHALATION: Remove to fresh air. If drink and induce vomiting. Repeat until vomit fluid is clear. Call physician Conditions to Avoid Call a physician. lower eyelids occasionally. Get medical attention. SKIN: Flush with water. EYES: Flush thoroughly with water for at least 15 minutes, lifting upper and immediately. Never give anything by mouth to an unconscious person. (1976) gives; orl-hmu TDLo: 80 mg/Kg.; orl-rat L. INGESTION: If swallowed, if conscious, give one or two glasses of water to Rubber. mist. Remove and wash contaminated ciothing. Store in a cool place, away from food products. Wash thoroughly after handling. Avoid contact with skin, eyes and clothing. Avoid breathing oxide and toxic fumes of chlorine gas. Thermal decomposition or burning may produce hydrochloric acid, barium None required. None required. Approved precipitate the barium to barium sulfate. Neutralize the excess acid using sodium bicarbonate. Flush residue to sewer with In case of spill, treat the spill with dilute sulfuric acid solution to copious amounts of water. Eye Protection Michael Raszeja Other Specia Excessive temperature and heat Not applicable Chemical safety glasses 335 mg/Kg Toxic Substance List ö Ş 3E 41 ₹ E

D.O.T. Non-regulated.

EXPLOSION HAZARDS UNUSUAL FIRE AND SPECIAL FIREFIGHTING

PROCEDURES

mist or lumes,

Extinguisher

Use any media suitable for extinguishing supporting fire

Method Used)

Non-flammable

lash Point

Solubility in Water Vapor Density (Air=1)

Complete. 0.7 (water) 14 mm (water)

Appearance & Odor

Clear, colorless liquid; no odor.

HIREAND EXPLOSION HAZARD DAVA

% by Volume dammable Limits in Air

N/A

Boiling Point (°F) Melting Point (°F)

SECTIONIII

Freezes approx. 0°C (32°F) 100°C (212°F) water.

Specific Gravity $(H_2O = 1)$

Water

97.6% 0 HWSIOALDAI*I*

CONTACT CAUSES SKIN AND EYE IRRITATION

WARNING! MAY BE HARMFUL OR FATAL IF SWALLOWED.

Water: (CAS No. 7732-18-5)

97.6%

2.4% %

Vapor Pressure (mm Hg)

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

The information contained herein is furnished without warrantly of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and feath of employees. * Hazardous Materials Industrial Standards. Printed on recycled paper.

dust or tume.

WLC9027X BARIUM CHLORIDE 0.1M IN 250ML OF WATER

To prepare the solution, quantitatively transfer the contents of the bottle of concentrate to a 250mL volumetric flask by rinsing the bottle into the flask twice with distilled water. Add distilled water to the fill line of the volumetric flask, cap the flask and thoroughly mix.

Alternative concentrations:

To make: 0.05M solution, dilute to 500mL final volume 0.2M solution, dilute to 125mL final volume

Salety Note: Normal safety precautions should always be taken when handling chemicals and chemical solutions, regardless of their packaging. See reverse side of this sheet for safety information