
Chlorosulfonic Acid

chlorosulphonic acid hazard summary chlorosulphonic acid - * chlorosulphonic acid is a reactive chemical and an explosion hazard. identification chlorosulphonic acid is a colorless to yellow, slightly cloudy, fuming liquid. it has a sharp odor and is used to make detergents, pharmaceuticals, dyes, pesticides and resins. reason for citation * chlorosulphonic acid is on the hazardous substance list **chlorosulfonic acid - infoolianorthamerica** - chlorosulfonic acid is used most widely for sulfating liquid long chain alcohols. the reaction is relatively simple and rapid and goes to completion through the loss of hci. csa is a strong agent, but reacts more moderately than sulfur trioxide with good yields and color. solid alcohols as well as ethoxylated alcohols, **acute exposure guideline levels (aegls) for chlorosulfonic ...** - chlorosulfonic acid (csa) interim: 06/2008 (page 8 of 33) 1 1. introduction 2 3 chlorosulfonic acid (csa), also commonly called chlorosulfuric acid, is a highly reactive 4 and corrosive acid with a pungent odor. csa is a strong oxidant and evolves hydrogen on 5 contact with moist metals (hsdb 2007). **workplace environmental exposure level** - hydrochloric acid and sulfuric acid. (4-7) vi. rationale . chlorosulfonic acid reacts readily and rapidly with water to form hydrochloric acid (hcl) and sulfuric acid (h. 2. so. 4) (approximately 1:3 by weight and 1:1 by molarity respectively) and its toxicity is expected to be related primarily to the **chlorosulfonic acid, 98% cas no.7790-94-5 - sparchem** - chlorosulfonic acid - not listed by acgih, iarc, or ntp. other: see actual entry in rtecs for complete information. **** section 12 - ecological information **** **** section 13 - disposal considerations **** dispose of in a manner consistent with federal, state, and local regulations. **chlorosulfonic acid csa - cameo chemicals** - chlorosulfonic acid csa cautionary response information common synonyms liquid colorless to light yellow sharp, choking odor reacts violently with water. appears to explode. poisonous gas is produced. chlorosulfuric acid chlorsulfonic acid sulfuric chlorhydrin evacuate. keep people away. avoid contact with liquid and vapor. **bi chlorosulfonic acid - atul** - chlorosulfonic acid bulk chemicals and intermediates | technical data sheet ! !!!!!page1/2! synonyms chlorosulfuric acid; sulfuric chlorohydrin cl s o o oh molecular formula ho 3scl molecular weight 116.5 cas number 7790-94-5 einecs number 232-234-6 specifications appearance pale yellow to amber coloured liquid ph acidic **sulfonation and sulfation processes - chemithon** - sulfamic acid chlorosulfonic acid o o o o o sulfuric acid oleum commercial sulfonation processes sulfamic acid (nh₂so₃h) is used to sulfate alcohols and ethoxylated alcohols to form an ammonium neutralized salt. a typical reaction is shown in figure 5. the reaction goes **multistep synthesis protecting groups** - would get protonated by the strong acid (chlorosulfonic acid) to become a meta-directing group, rather than a para-directing group. nh₂ h nh₃ meta-directing by using the amide, instead of the free amine, the nucleophilic properties of the nitrogen get reduced by resonance stabilization of the lone pair of electrons. **neutralization of strong acids and bases** - a) chlorosulfonic acid b) fuming nitric acid c) sulfuric acid d) acid anhydrides and chlorides e) liquid halides of boron, silicon, tin, titanium and vanadium f) liquid halides and oxyhalides of phosphorus, selenium and sulfur g) hydrofluoric acid (never neutralize under any circumstances) personal protection and equipment **material safety data sheet - indo gulf group** - material safety data sheet chlorosulfonic acid section 1 - chemical product and company identification msds name: chlorosulfonic acid, 97% synonyms: section 2 - composition, information on ingredients cas# chemical name percent einecs/elincs 7790-94-5 chlorosulfonic acid 97% 232-234-6 section 3 - hazards identification emergency overview **sulfa antibiotics - synthesis of sulfanilamide ...** - 3, forming the sulfonic acid. the initially formed substitution product is the sulfonic acid. substitution is essentially all para due to combined electronic and steric effects. the sulfonic acid is then converted to 4-acetamidobenzenesulfonyl chloride by reaction with excess chlorosulfonic acid, generating sulfuric acid as the co-product. **chlorosulfonic acid for synthesis msds - loba chemie** - chlorosulfonic acid for synthesis is not on the reach candidate list chlorosulfonic acid for synthesis is not on the reach annex xiv list 15.1.2. national regulations germany reference to awsv : water hazard class (wgk) 1, slightly hazardous to water (classification according to awsv; id no. 236) 12th ordinance implementing the federal **chlorosulfonic acid, 98% - kisco** - chlorosulfonic acid, 98% code no. jmc-q-0132 rev. no. 0-060901 pages 1/1 a5030-08 2005.07.01 rev. jmc corp. a4 hso 3 cl hso 3 cl/ m.w. 116.52 identification of product - chemical name chlorosulphuric acid - trade/ synonym chlorosulfuric acid , 98%

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