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Copper sulfate pentahydrate material safety data sheet

MSDS Name: Copper (II) Sulfate Pentahydrate Catalogue Numbers: AC197720000, AC197720010, AC197720050, AC197722500, AC197730000, AC197730010, AC197730050, AC197730250, AC423610000, AC423610030, AC423610050, AC42361500, BP346-500, C489-1, C489-10, C489-500, C490-10, C490-3, C493-10, C493-3, C493-500, C494-12, C494-250LB, C494-500, C496-12, C496-212, S73250-1 Synonyms: Blue Vitriol. Company Identification: Fisher Scientific 1 Reagent Lane Fair Lawn, NJ 07410 For information, Call: 201-796-7100 Emergency Number: 201-796-7100 To help CHEMTREC, call: 800-424-9300 For CHEMTREC International Assistance, call: 703-527-3887 Emergency OVERVIEW Appearance: Blue Crystals. Warning! Causes irritation and possible burns along all routes of exposure. It's bad if you swallow it. Hygroscopic (absorbs moisture from the air). Heavy sea pollutant. Targeted organs: blood, kidneys, liver. Potential effects on eye health: Exposure to particulate matter or solution can cause conjunctivitis, ulcers and corneal abnormalities. Causes eye irritation and possible burns. Skin: Causes skin irritation and possible burns. Admision inside: Harmful when swallowed. It can cause severe irritation of the gastrointestinal tract with nausea, vomiting and possible burns. Taking large amounts of copper salts can cause bloody stools and vomiting, low blood pressure, jaundice and coma. Taking copper compounds can cause systemic toxic effects on the kidneys

and liver and central nervous arousal followed by depression. Inhalation: May cause ulcers and perforation of the nasal septum when inhaled in excessive amounts. Causes irritation of the airways with possible burns. Chronic: can cause liver and kidney damage. It can cause anemia and other abnormalities in blood cells. People with Wilson's disease are unable to absorb copper. Thus, copper accumulates in various tissues and can cause damage to the liver, kidneys and brain. Adverse reproductive effects have been reported in animals. Laboratory experiments have led to mutagenic effects. Chronic copper poisoning in humans is recognized as Wilson's disease. Section 4 - RTECS First Aid Measures: CAS 7758-99-8: GL8900000 CAS 7758-98-7: GL8800000 LD50/LC50: CAS 7758-99-8: Oral, mouse: LD50 and 43 mg/kg; Oral, rats: LD50 and 300 mg/kg; Skin, rat: LD50 and zgt:2 gm/kg;. KASS 7758-98-7: Oral, mouse: LD50 and 369 mg/kg; Oral, mice: LD50 and 87 mg/kg; Oral, rats: LD50 and 300 mg/kg; Oral, rats: LD50 and 960 mg/kg; Carcinogenicity: CAS- 7758-99-8: Not specified ACGIH, IARC, NTP or CA Prop 65. KASS 7758-98-7: Not specified ACGIH, IARC, NTP or CA Prop 65. Epidemiology: No information found teratogenicity: See the actual entry into RTECS for full information. Reproductive Effects: See the actual entry in RTECS for full information. Mutagenicity: See the actual entry in RTECS for full information. Neurotoxicity: No Information Found Other Research: Section 12 - U.S. Environmental Information FEDERAL TSCA CAS 7758-99-8 not on TSCA Inventory Because is a hydrate. It is considered to be listed if the CAS number for anhydrogenic form is on the inventory (40CFR720.3(u) (2)). KASS 7758-98-7 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 product have TPP. SARA Codes CAS No. 7758-99-8: immediately, delayed. CAS No 7758-98-7: immediately. Section 313 This material contains copper (II) sulfate pentahydrate (listed as copper compounds, n.o.s.), 100%, (CAS- 7758-99-8), which is subject to the requirements of Section 313 of Section III OF SARA and 40 CFR Part 373. This material contains sulfate anhydrous Kuprik (listed as copper compounds, n.o.s.), -% -(CAS- 7758-98-7) which is subject to reporting requirements of Section 313 SARA Title III and 40 CFR Part 373. 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 7758-98-7 is listed as a dangerous substance under the CWA. None of the chemicals in this product are listed as priority pollutants under the CWA. CASS 7758-99-8 is listed as a toxic pollutant under the Clean Water Act. CAS 7758-98-7 is listed as a toxic pollutant under the Clean Water Act. OSHA: None of the chemicals in this product is considered very dangerous OSHA. STATE CAS 7758-99-8 can be found on the following state right to know lists: California, (listed as Copper Connections, n.o.s.), New Jersey, (listed as Copper Connections, n.o.s.), Pennsylvania, (listed as Copper Connections, n.o.s.), 7758-98-7 CAN be found on the following states right to know lists: California, New Jersey, Pennsylvania, Massachusetts. 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 Directive Hazard Symbols: XN N Risk Phrase: R 22 Harmful when swallowed. R 36/38 Irritates the eyes and skin. R 50/53 Very toxic to aquatic organisms, can cause long-term adverse effects in aquatic environments. Safety Phrases: S 22 Don't Breathe Dust. S 60 This material and its container must be disposed of as a waste. to special instructions/security data sheets. WGK (Water Hazard/Protection) CAS 7758-99-8: 2 CAS 7758-98-7: 2 Canada - DSL/NDSL CAS 7758-98-7 is included in the Canadian DSL list. Canada - WHMIS This product is classified as WHMIS D1B, D2B. It's This. was 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 7758-99-8 (listed as copper compounds, n.o.s.) is listed on the Canadian ingredient disclosure list. KASS 7758-98-7 is included in the Canadian Ingredient Disclosure List. Section 16 - Additional information MSDS Title: Copper (II) sulfate pentahydrat Catalog Rooms: AC197720000, AC197720010, AC197720050, AC19772500, AC19772500, AC197730000, AC197730010, AC197730050, AC197730250, AC423610000, AC423610030, AC423610050, AC42361500, BP346-500, C489-1, C489-10, C489-500, C490-10, C490-3, C493-10, C493-3, C493-500, C494-12, C49 4 -212, C494-250LB, C494-500, C496-12, C496-212, S73250-1. Synonyms: Blue Vitriol. Company Identification: Fisher Scientific 1 Reagent Lane Fair Lawn, NJ 07410 For information, Call: 201-796-7100 Emergency Number: 201-796-7100 To help CHEMTREC, call: 800-424-9300 For CHEMTREC International Assistance, call: 703-527-3887 Emergency OVERVIEW Appearance: Blue Crystals. Warning! Causes irritation and possible burns along all routes of exposure. It's bad if you swallow it. Hygroscopic (absorbs moisture from the air). Heavy sea pollutant. Targeted organs: blood, kidneys, liver. Potential effects on eye health: Exposure to particulate matter or solution can cause conjunctivitis, ulcers and corneal abnormalities. Causes eye irritation and possible burns. Skin: Causes skin irritation and possible burns. Admission inside: Harmful when swallowed. It can cause severe irritation of the gastrointestinal tract with nausea, vomiting and possible burns. Taking large amounts of copper salts can cause bloody stools and vomiting, low blood pressure, jaundice and coma. Taking copper compounds can cause systemic toxic effects on the kidneys and liver and central nervous arousal followed by depression. Inhalation: May cause ulcers and perforation of the nasal septum when inhaled in excessive amounts. Causes irritation of the airways with possible burns. Chronic: can cause liver and kidney damage. It can cause anemia and other abnormalities in blood cells. People with Wilson's disease are unable to absorb copper. 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Mutagenicity: See the actual entry in RTECS for full information. Neurotoxicity: No information found Other studies: Section 12 - U.S. Environmental Information FEDERAL TSCA CAS 7758-99-8 is not on TSCA inventory because it is hydrate. It is considered to be listed if the CAS number for anhydrogenic form is on the inventory (40CFR720.3(u) (2)). KASS 7758-98-7 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 7758-98-7: 10 pounds of final RH; 4.54 kg of the final ER SARA Section 302 Extremely Hazardous Substances None of the chemicals in this product have TPP. SARA Codes CAS No. 7758-99-8: immediately, delayed. CAS No 7758-98-7: immediately. Section 313 This material contains copper (II) sulfate pentahydrate (listed as copper compounds, n.o.s.), 100%, (CAS- 7758-99-8), which is subject to the requirements of Section 313 of Section III OF SARA and 40 CFR Part 373. This material contains sulfate anhydrous Kuprik (listed as copper compounds, n.o.s.), -% -(CAS- 7758-98-7), which is subject to reporting requirements of Section 313 SARA Title III and 40 CFR Part 373. 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 7758-98-7 is listed as a dangerous substance under the CWA. None of the chemicals in this product are listed as priority pollutants under the CWA. CASS 7758-99-8 is listed as a toxic pollutant under the Clean Water Act. CAS 7758-98-7 is listed as a toxic pollutant under the Clean Water Act. OSHA: None of the chemicals in this product is considered very dangerous OSHA. STATE CAS 7758-99-8 can be found on the following state right to know lists: California, (listed as Copper Connections, n.o.s.), New Jersey, (listed as Copper Connections, n.o.s.), Pennsylvania, (listed as Copper Connections, n.o.s.), 7758-98-7 CAN be found on the following states right to know lists: California, New Jersey, Pennsylvania, Massachusetts. California Prop 65 California No Significant Risk Level: None of the Chemicals in This Lists. European/international European Labelling Rules in accordance with EU Directive Hazard Symbols: XN N Risk Phrase: R 22 Harmful when swallowed. R 36/38 Irritates the eyes and skin. R 50/53 Very toxic to aquatic organisms, can cause long-term adverse effects in aquatic environments. Wednesday. Phrases: S 22 Do not breathe dust. S 60 This material and its container must be disposed of as a waste. Check out the special security data instructions/ lists. WGK (Water Hazard/Protection) CAS 7758-99-8: 2 CAS 7758-98-7: 2 Canada - DSL/NDSL CAS 7758-98-7 is included in the Canadian DSL list. Canada - WHMIS This product is classified as WHMIS D1B, D2B. 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 7758-99-8 (listed as copper compounds, n.o.s.) is listed on the Canadian ingredient disclosure list. KASS 7758-98-7 is included in the Canadian Ingredient Disclosure List. Section 16 - Additional information

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