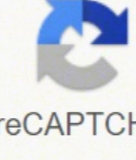


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## Bondall hydrochloric acid safety data sheet pdf free printable blank

Product Name: Hydrochloric Acid Solution Date of Issue: May, 2016 Version:3.0 Page 2 of 8 In case of eye contact In case of eye contact, check for and remove any contact lenses. Collect and seal in properly labelled containers or drums for disposal. HANDLING AND STORAGE 1. Hazchem code 2R 6. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Seek immediate medical assistance. Reason(s) for Issue: Revised primary SDS Alignment to GHS requirements Disclaimer AGent Sales & Services Pty Ltd provides the information contained herein in good faith but makes no representation as to its’ comprehensiveness or accuracy. Neutralise with lime or soda ash. If inhaled Remove victim from area of exposure - avoid becoming a casualty. HAZARDS IDENTIFICATION 1. Consult a doctor/physician. P363 P304+P340 P312 P321 P305+P351+P338 2. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements Personal protective equipment (PPE) The selection of PPE is dependent on a risk assessment. STABILITY AND REACTIVITY 1. These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. In case of skin contact If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water; Work up wind or increase ventilation. Avoid exposure to direct sunlight. PHYSICAL AND CHEMICAL PROPERTIES Appearance: Form : Liquid Colour : Clear, colourless to slightly yellow Odour: Pungent Odour Threshold: No data available Product Name: Hydrochloric Acid Solution Date of Issue: May, 2016 Version:3.0 Page 4 of 8 pH: Melting Point: < -20°C Boiling Point/Range: 98°C (for 28% concentration) Decomposition Temperature: Not available Evaporation Rate: No data available Flash Point: Not applicable Flammability Limits: Not applicable Specific Gravity: 1.14 (for 28% concentration) 1.16 (for 32% concentration) Vapour Density (air=1): 1.3 Vapour Pressure: 2 kPa % Volatiles: 100 Solubility in water: Miscible with water 10. Skin contact : Contact with skin will result in severe irritation. Corr. 12.3 Bioaccumulative potential No data available. All atmospheric contamination should be kept to as low a level as is workable. 12.4 Mobility in soil No data available. Store locked up. Contamination of eyes can result in permanent injury.. Store away from incompatible materials described in Section 10. Incompatible materials Incompatible with alkalis, oxidising agents, sodium hypochlorite, permanganates, cyanides and many metals. 8.2 Exposure controls Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before re-use. Description of First Aid measures General advice Contact the Poisons Information Centre (Phone: Australia 131 126; New Zealand 0800 764 766) or consult a doctor/physician. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Immediately call a POISON CENTER or doctor/physician. Ensure adequate ventilation. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are: Eye contact : A severe eye irritant. IDENTIFICATION OF PRODUCT AND SUPPLIER 1. Rinse mouth with water. Standard for the Uniform Scheduling of Drugs and Poisons Serious eye damage Corrosive to metals Skin corrosion Specific target organ toxicity (single exposure) - Category 3 Time weighted average Short term exposure level Safe Work Australia A ceiling concentration that should not be exceeded over a measurement period, which should be as short as possible, but not exceeding 15 minutes Lethal dose 50. Specific treatment (see First Aid Measures on Safety Data Sheet). Rinse skin with water/shower. May cause respiratory irritation. Continue rinsing. Accordingly, AGent Sales & Services Pty Ltd will not be responsible for damages resulting from use of or reliance upon this information. FIRE FIGHTING MEASURES 1. Conditions for safe storage, including any incompatibilities Store in cool place and out of direct sunlight. Avoid accidents, clean up immediately. Toxicity to fish: LC50 (Gambusia affinis, mosquitofish) = 282 mg/L, 96h 12.2 Persistence and degradability No data available. Always add the acid to water, never the reverse. If contamination of sewers or waterways has occurred, advise local emergency services. Keep container tightly closed. 13. Conditions to avoid Keep away from heat and sources of ignition. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. If swallowed DO NOT induce vomiting. Store away from foodstuffs. Avoid dust generation. Gloves must be inspected prior to use. 11.3 Additional Information RTECS: MW4025000 12. 16. 9. See Australian Standards (AS/NZS 1715 & 1716). Product Name: Hydrochloric Acid Solution Date of Issue: May, 2016 Version:3.0 Page 8 of 8 Wash hands thoroughly after handling. Chemical stability Stable under recommended storage conditions. Corrosive to skin - may cause skin burns. Seek immediate medical advice. DO NOT induce vomiting. 12.5 Other adverse effects No data available. If patient finds breathing difficult and develops a bluish discoloration of the skin (which suggests a lack of oxygen in the blood - cyanosis), ensure airways are clear of any obstruction and have a qualified person give oxygen through a face mask. Storage P403+P233 P405 P406 Store in a well-ventilated place. IF IN EYES: Rinse cautiously with water for several minutes. ECOGICAL INFORMATION 12.1 Ecotoxicity Avoid contaminating waterways. AGent Sales & Services Pty Ltd makes no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Wash area down with excess water. This material is classified as a Dangerous Goods Class 8 Corrosive by the criteria of the ADG Code and must be stored and handled in accordance with the relevant regulations. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Never give anything by mouth to an unconscious person. (Hydrochloric acid) IARC: 3 - Group 3. Not classifiable as to its carcinogenicity to humans (Hydrochloric acid) Reproductive toxicity No data available. STOT SE3 TWA STEL SWA Peak Limitations LD50 LC50 LD To Australian Dangerous Goods Australian Safety and Compensation Council Department of Environment and Conservation Globally Harmonised System of Classification & Labelling of Chemicals National Occupational Health and Safety Commission Registry of Toxic Effects of Chemical Substances. Methods and materials for containment and cleaning up Slippery when split. Street address : 113 Belmont Ave, Belmont, Western Australia 6104 Telephone : +61 8 6272 3815 Fax : +61 8 9277 4068 Emergency telephone number Telephone : 1800 810 123 2. Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in Section 2.2 and/or Section 11. Protect from moisture. Details of supplier of the safety data sheet Company : Bondall Pty Ltd 5. Keep out of reach of children. Allow patient to assume most comfortable position and keep warm. Product Name: Hydrochloric Acid Solution Date of Issue: May, 2016 Version:3.0 Page 1 of 8 P264 P280 Response P301+P330+P331 P303+P361+P353 P310 P390 IF SWALLOWED: Rinse mouth. Apply artificial respiration if patient is not breathing. Met. 11. TRANSPORT INFORMATION Classified as a Dangerous Goods by the criteria of the ADG Code for transport by road or rail Classified as a Dangerous Goods by the criteria of the IMDG Code for transport by sea Classified as a Dangerous Goods by the criteria of the IATA Code for transport by air 14.1 UN number ADG : 1789 IMDG : 1789 IATA : 1789 14.2 Proper shipping name ADG : HYDROCHLORIC ACID IMDG : HYDROCHLORIC ACID IATA : HYDROCHLORIC ACID 14.3 Transport hazard class ADG : 8 Corrosive IMDG : 8 Corrosive IATA : 8 Corrosive 14.4 Packing group ADG : II IMDG : II IATA : II 14.5 Environmental hazards ADG : No IMDG Marine Pollutant : No IATA : No 14.6 Special precautions for users 14.7 Hazchem code ADG : 2R 14.8 Dangerous goods initial emergency response guide (SAAS/NZ HB76.2010) No data IMDG EMS : F-A, S-B 40 15. Corrosive to eyes; contact can cause corneal burns. (Hydrochloric acid) Specific target organ toxicity (STOT) - repeated exposure No data available Aspiration hazard No data available (Hydrochloric acid) Health Effects No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Wear protective gloves/ protective clothing/ eye protection/ face protection. For personal protection see Section 8. 6. 1; Skin Corr. ACCIDENTAL RELEASE MEASURES 1. Hazardous decomposition products Hydrogen chloride and chlorine gases. EXPOSURE CONTROLS AND PERSONAL PROTECTION 8.1 Control parameters Occupational Exposure Limits Chemical Name Hydrochloric acid (7647-01-0) TWA - Peak Limitation Reference ASCC ppm mg/m 5 7.5 STEL 3 ppm mg/m 3 Carcinogen Category Notices - - As published in "Workplace Exposure Standards for Airborne Contaminants, December 2011" by SWA. Skin protection Wear protective gloves, protective clothing and safety footwear and splash apron appropriate for the risk of exposure. FIRST AID MEASURES 1. Special protective equipment and precautions for fire fighters Wear self-contained breathing apparatus for firefighting if necessary. 3. GHS Classification Corrosive to metals (Category 1) Skin corrosion (Category 1) Serious eye damage (Category 1) Specific target organ toxicity - single exposure (Category 3), Respiratory system GHS Label elements, including precautionary statements Pictogram : Signal word : Danger Hazard statement(s) H290 H314 H335 May be corrosive to metals. DISPOSAL CONSIDERATIONS 13.1 Disposal methods and containers Dispose of in accordance with all local, state and federal regulations. Eye/face protection Tightly fitting safety glasses, full face-shield (where appropriate). Ed. D. Wash hands before breaks and at the end of workday. Specific target organ toxicity (STOT) - single exposure The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation. 4. TOXICOLOGICAL INFORMATION 11. 1 Information on toxicological effects Acute toxicity No data available (Hydrochloric acid) Inhalation: no data available (Hydrochloric acid) However, for constituent HYDROGEN CHLORIDE: LD50 Oral, rabbit is 900 mg/kg; LC50 Inhalation, rat is 3124 ppm/1h Skin corrosion/irritation Skin - Rabbit : Result : Causes burns Serious eye damage/eye irritation Eyes - Rabbit : Result : Corrosive to eyes Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity Product Name: Hydrochloric Acid Solution Date of Issue: May, 2016 Version:3.0 Page 5 of 8 This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. Observe all local and national regulations. Biological Limits None allocated for this product. Other means of identification Muriatic acid, Spirit of salts, Hydrogen chloride solution, HCl 3. Contain prevent run off into drains and waterways. Do not store in galvanised containers. Remove contaminated clothing and loosen remaining clothing. Product identifiers Product name : HYDROCHLORIC ACID SOLUTION 2. Absorb spillage to prevent material damage. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose. 5. If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. Keep at rest until fully recovered. See Australian Standards (AS/NZS 1336 & 1337). Possibility of hazardous reactions Reacts with oxidising agents and sodium hypochlorite liberating toxic chlorine gas. Discharge into the environment must be avoided. Product Name: Hydrochloric Acid Solution Date of Issue: May, 2016 Version:3.0 Page 3 of 8 8. Skin Corr. Causes severe skin burns and eye damage. Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Disposal P501 Dispose of contents/ container to an approved waste disposal plant. See Australian Standards (AS 2161 & 2919 and AS/NZS 2210). They are not a measure of relative toxicity. 7. Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Dispose of contaminated gloves after use. Ingestion : Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract. The single dose of a substance that causes the death of 50% of an animal populaton from exposure to the substance by any route other than inhalation Lethal concentration that kills 50% of an animal population within a specified time The lowest dose of a substance known to have produced signs of toxicity Product Name: Hydrochloric Acid Solution Date of Issue: May, 2016 Version:3.0 Page 7 of 8 RTECS gfl 3 g/cm 3 mg/m mg/kg pH WHS Registry of Toxic Effects of Chemical Substances Grams per Litre Grams per cubic centimetre Milligrams per cubic metre Milligrams per kilogram Relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline Work Health and Safety Literature references "Workplace Exposure Standards for Airborne Contaminants, December 2011" by SWA Work Health and Safety Regulations 2011 "Registry of Toxic Effects of Chemical Substances". HEAD OFFICE 113 Belmont Ave Belmont, WA 6104 T: +61 8 6272 3815 F: +61 8 9277 4068 E: (email protected) Safety Data Sheet 1. Other hazards None. Use absorbent (soil, sand or other inert material). Precautions for safe handling Avoid skin and eye contact and breathing in vapour, mists and aerosols. 14. 1; STOT SE 3; H290; H314; H335 - Concentration (%) 10 - 35 Balance For the full text of the H-Statements mentioned in this section, see Section 16 4. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility. OTHER INFORMATION Key / legend to abbreviations and acronyms used in the MSDS ADG ASCC DEC GHS NOHSC RTECS SUSDP Eye Dam. P261 Avoid breathing fume/ gas/ mist/ vapours/ spray. Can cause corneal burns 4. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Reactivity Corrosive to many metals with the liberation of extremely flammable hydrogen gas. of Health & Human Services: Cincinnati, 2012. Environmental precautions Prevent further leakage or spillage if safe to do so. Continue to wash skin and hair with plenty of water (and soap if material is insoluble) until advised to stop by the Poisons Information Centre or a doctor. Wash and dry hands. If the respirator is the sole means of protection, use a full-face supplied air respirator. Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination or type ABEK regulator cartridges as a backup to engineering controls. Store in corrosive resistant container with a resistant inner liner. Evacuate personnel to safe areas. Special hazards arising from the chemical Hydrogen chloride gas. This material is a Scheduled Poison S6 and must be stored, maintained and used in accordance with the relevant regulations. REGULATORY INFORMATION 15.1 Safety, health and environmental regulations Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) S6 Poison Carcinogen classification under WHS Regulations 2011, Schedule 10 Not listed Notification status AICS ON the inventory, or in compliance with the inventory. Do not let product enter drains. Do not store in aluminium containers. Sweet, US Dept. 2. Indication of any immediate medical attention and special treatment needed Treat symptomatically. Personal precautions, protective equipment and emergency procedures Wear respiratory protection. 1. Eye Dam. Show this safety data sheet to the doctor in attendance. Immediately rinse thoroughly with plenty of running water until advised to stop by a Poisons Information Centre or doctor, or for at least 15 minutes, keeping eyelids open. Product Name: Hydrochloric Acid Solution Date of Issue: May, 2016 Version:3.0 Page 6 of 8 13.3 Special precautions for landfill or incineration Contact a specialist disposal company or the local waste regulator for advice. Call a POISON CENTER or doctor/physician if you feel unwell. A properly trained person using this product intends this document only as a guide to the appropriate precautionary handling of the material. COMPOSITION / INFORMATION ON INGREDIENTS Component CAS Number Hydrochloric acid 7647-01-0 Water 7732-18-5 Classification Met. First Aid facilities Eye wash facilities and safety shower should be available. Remove contact lenses, if present and easy to do. Inhalation : Breathing in mists or aerosols will produce respiratory irritation 11.2 Information on possible routes of exposure The substance can be absorbed into the body by inhalation of its aerosol, ingestion, skin and/or eye contact. Avoid breathing vapours, mist or gas. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods and environmental factors. Keep containers closed when not in use - check regularly for leaks. Precautionary statement(s) Prevention P234 Keep only in original container. Recommended use of the product and restrictions on use Swimming pool chemical, pH neutraliser, General chemical - boiler scale removal, ore reduction, pickling and metal cleaning, laboratory reagent 4.

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