RADCHEM

LABORATORY CHEMICALS AND CONSUMABLES

MATERIAL SAFETY DATA SHEET

ALUMINIUM CHLORIDE

1. Chemical Product and Company information.

Product name: Aluminium Chloride solution

Contact Information:
Radchem cc
PO Box 166982
Brackendowns
Alberton 1454
Telephone : **011 867 3726 / 2864**

2. Hazard Identification

Causes burns. CLASSIFICATION C;R34.

3. Composition / information on ingredients

CAS #: 7446-70-0

Synonym: Aluminium Trichloride, , Aluminium Chloride

Chemical Name: Aluminium Chloride

4. First Aid Measures

Eye Contact: Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse.

Skin Contact: Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

Inhalation: Remove victim immediately from source of exposure. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion: NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention immediately!

5. Fire-fighting measures

Flammability of the Product: This product is not flammable

Fire Hazards in Presence of Various Substances: SPECIFIC HAZARDS: Hydrogen chloride (HCl). Chlorine.

Fire Fighting Media and Instructions: This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

6. Accidental release measures

PERSONAL PRECAUTIONS: Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS: Do not allow ANY environmental contamination.

SPILL CLEAN UP METHODS: DO NOT TOUCH SPILLED MATERIAL! Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area.

7. Handling and storage

Precautions: Avoid spilling, skin and eye contact

Storage: Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

8. Exposure controls/personal protection

Engineering Controls: Provide adequate ventilation. Observe Workplace Exposure Limits and minimise the risk of inhalation of vapours.

Personal Protection: Use suitable protective gloves if risk of skin contact. Wear approved safety goggles. Use safety goggles and face shield in case of splash risk. Wear appropriate clothing to prevent any possibility of skin contact.

Personal Protection in the work place: DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

9. Physical and chemical properties

Physical state and appearance: Liquid

Odour: Not available

Taste: Not available

Colour: Yellow Clear to Milky

Boiling Point: Not available

Melting Point: Not available

Critical Temperature: Not available

Odour Threshold: Not available

Ionicity (in Water): Not available.

Dispersion Properties: Not available

Solubility: Completely soluble in water

Volatility: Not available

Specific Gravity: Not available

Vapour Density: Not available

10. Stability and reactivity

Stability: The product is stable under normal temperature conditions.

Instability Temperature: Not available.

Conditions of Instability: Avoid excessive heat for prolonged periods of time. Avoid contact with: Strong alkalis. In contact with metals generates hydrogen gas, which together with air can form explosive mixtures.

Incompatibility with various substances: Strong alkalis

Corrosivity: Not available

Special Remarks on Reactivity: Fire or high temperatures may form toxic and corrosive vapours.

Special Remarks on Corrosivity: Not available

Polymerization: Will not occur.

11. Toxicological information

TOXIC DOSE: 1 - LD 50 3800 mg/kg (oral rat)

INHALATION: May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

INGESTION: May cause burns in mucous membranes, throat, oesophagus and stomach.

SKIN CONTACT: May cause serious chemical burns of the skin.

EYE CONTACT: Causes burns.

12. Ecological information

Ecotoxicity: Not regarded as dangerous for the environment.

BOD5 and COD: Not available

Products of Biodegradation: Not available

Toxicity of the Products of Biodegradation: The product is water soluble and may spread in water systems.

Special Remarks on the Products of Biodegradation: Not available

13. Disposal considerations

Waste Disposal: Do not puncture or incinerate even when empty. Dispose of waste and residues in accordance with local authority requirements.

14. Transport information

DOT Classification: Class 8: Corrosive substances.

Identification: : ALUMINIUM CHLORIDE, SOLUTION

Special Provisions for Transport: Not available