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Material Safety Data Sheet Tri-valent Blue 8-04

Identification of substance

Tri-valent Blue 8-04 Trade name:

89413 Article number:

Chin cha-roen interchem CO.,LTD. Supplier:

Further information obtainable from : Department laboratory

Composition/Data on components:

Chemical characterization

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

1803 Sulphuric acid

1341-49-7 Ammonium hydrogendifluoride

T, C; R 25-34

Chromium nitrate solution

C; r 34

Hazard identification

Hazard description:



C Corrosive

- Information concerning to particular hazards to man and environment
 - R 22 Harmful if swallowed.
 - R 34 Causes burns.
- Classification system

The classification is according to the latest editions of the EU-lists, and extended by company and

literature data.

Fire fighting measures

- Suitable extinguishing agents
 - CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards caused by the substance, its products of combustion or resulting gases:
 - Formation of toxic gases is possible during heating or in case of fire.
- Protective equipment: No special measures required.

First aid measures

- General information

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation

For at least 48 hours after the accident.

After inhalation

In case of unconsciousness place patient stably in side cosition for transportation.

- After skin contact immediately rinse with water.
- After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Handling and storage

- Handling
- Information for safe handling :

Ensure good ventilation/exhaustion at the workplace.

- Information about fire-and explosion protection:

No special measures required.

- Storage
- Requirements to be met by storerooms and receptacles:
- Information about storage in one common storage facility:

Do not store together with alkalis (caustic solutions).

- For ther information about storage conditions:

Keep receptacle tightly sealed.

Storage class

- Class according to regulation on flammable liquids : Void

Accidental release measures

- Person – related safety precaution:

Wear protective equipment. Keep unprotected persons away

- Measures for environmental protection

Do not allow to enter sewers / surface or ground water.

Measures for cleaning/collecting:

Absorb with liquid – binding material (sand, diatomite, acid binders, universal binders, sawdust)

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Exposure controls and personal protection gear

- Additional information about design of technical facilities:

No further data; see item 7.

- Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities or materials with critical values that have to be monitored at the workplace.

Additional information :

The lists valid during the making were used as basis.

- Personal protective equipment
- General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

- Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- Protection of hands: Protective gloves.
- Eye protection: Tightly sealed goggles.

Physical and chemical properties:

- Form : Fluid

- Colour : Dark green

- Odour : Characteristic

- Change in condition

- Melting point/Molting ranga: undetermined

- Boiling point/Boiling range: 100 ° C

- Flash point : Not applicable

- Self-igniting: Product is not selfigniting.

Danger of explosion : Product does not present an Explosion hazard.

- Vapour pressure: at 20 ° C 23 mbar

- Density: at $20 \, ^{\circ} \text{C}$ 1.3 g/cm³

- Solubility in / Miscibility with

- Water; Fully miscible

- pH-value: at 20 ° C 2.00

Stability and reactivity

- Thermal decomposition/conditions to be avoided:

No decomposition if used according to specifications.

- Dangerous reactions Reacts with alkali and metals
- Dangerous decomposition products :

No dangerous decomposition products known

Toxicological information

- Acute toxicity :
- Primary irritant effect:
- on the skin: Strong caustic effect on skin and mucous membranes.
- on the eye: strong caustic effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Ecological information:

- Information about elimination(persistence and degradability):

- Other information : No data available
- Ecotoxical effects:
- Acquatic toxicity:

1341-49-7 ammonium hydrogendifluoride

LCO/96 h: 237 mg/l (Brachydanic rerio)

- General notes:

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

Disposal considerations

- Product:
- Recommendation

Must be specially treated adhering to official regulations.

- Uncleaned packaging:
- Recommendation:
- Recommended cleansing agents:

Water, if necessary together with cleansing agents.

Transport information

- Land transport ADR/RID (cross-border)

- ADR/RID class: 8 Corrosive substances.

- Item: 17b

- Danger code (Kemler): 80

- UN-Number: 3264

- Hazard label 8

- Description of goods: Corrosive liquid, acidic, inorganic, n.c.s., chromium nitrate solution

- Maritime transport IMDG:

- IMDG Class: 8

- Page: 8147-1

- UN Number: 3264

- Packaging group: II

- EMS Number: 8-15

- MFAG: 760

- Marine pollutant : No

- Proper shipping name: Corrosive liquid, acidic, inorganic, n.c.s., chromium nitrate solution

- Air transport ICAO-TI and IATA-DGR:

- ICAO/IATA Class: 8

- UN/ID Number : 3264

- Packaging group:

- Proper shipping name Corrosive liquid, acidic, inorganic, n.c.s., chromium nitrate solution

Regulations

- Labelling according to EU guidelines:

- Code letter and hazard designation of product : C Corrosive

- Hazard- determining componente of labelling:

Ammonium hydrogendifluoride

Chromium nitrate solution

- Risk phrases:

22 Harmful if swallowed.

34 Causes burns.

- Safety phrases:
 - 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - 37/39 Wear suitable gloves and eye/face protection.
 - In case of fire and/or explosion do not breathe fumes.
- National regulations
- Classification according to VbF: Void
- Waterhazard class: Water hazard class 2 (Self-assessment): hazardous of water.

Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Compared with the pervious distribution modifications are mark with "*" on the left margin.

- Department issuing MSDS: Department laboratory