Tel(+31)(0) 570-687500

Fax(+31)(0) 570-687574

E-mail: jtbaker.nl@covidien.com



Safety Data Sheet according to 1907/2006/EC, Article 31

Printing date 26.08.2007 Revision: 26.08.2007

1 Identification of substance:

· Product details:

· Trade name: Ammonium Chloride

· Article number: 0018, 103015, 0019

· Application of the substance / the preparation

Chemicals for synthesis Laboratory chemicals

· Manufacturer/Supplier:

Mallinckrodt Baker B.V

P.O.Box 1

7400 AA Deventer

The Netherlands

· Informing department:

Quality Systems & Regulatory Affairs E-mail: sjors.duteweert@covidien.com

· Emergency information:

Environment Health & Safety department

during normal opening times (8 am till 5.30 pm) tel: (+31)(0) 570 687500

2 Hazards identification

· Hazard designation:



Xn Harmful

· Information pertaining to particular dangers for man and environment

R 22 Harmful if swallowed.

R 36 Irritating to eyes.

3 Composition/information on ingredients

- · Chemical characterization:
- · CAS No. Designation:

12125-02-9 Ammonium Chloride

- · Identification number(s):
- · EINECS Number: 235-186-4
- · EC Number: 017-014-00-8

4 First aid measures

· General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation Supply fresh air; consult doctor in case of symptoms.
- · After skin contact The product is not skin irritating.
- · After eye contact Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- · After swallowing

Rinse out mouth

(Contd. on page 2)



Printing date 26.08.2007 Revision: 26.08.2007

Trade name: Ammonium Chloride

Instantly call for doctor.

(Contd. of page 1)

5 Fire fighting measures

· Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

· Special hazards caused by the material, its products of combustion or flue gases:

Nitrogen oxides (NOx)

Hydrogen chloride (HCl)

· Protective equipment: No special measures required.

6 Accidental release measures

- · Person-related safety precautions: Not required.
- · Measures for environmental protection: No special measures required.
- · Measures for cleaning/collecting: Dispose of contaminated material as waste according to item 13.

7 Handling and storage

- · Handling
- · Information for safe handling: Prevent formation of dust.
- · Information about protection against explosions and fires: no special requirements
- · Storage
- · Requirements to be met by storerooms and containers: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

This product is hygroscopic.

Store under dry conditions.

Keep container tightly sealed.

8 Exposure controls and personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Components with critical values that require monitoring at the workplace:

12125-02-9 Ammonium Chloride

WEL () Short-term value: 20 mg/m³

Long-term value: 10 mg/m³

- · Additional information: The lists that were valid during the compilation were used as basis.
- · Personal protective equipment
- General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

(Contd. on page 3)



Printing date 26.08.2007 Revision: 26.08.2007

Trade name: Ammonium Chloride

(Contd. of page 2)

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

PVC gloves

Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- · Eye protection: Tightly sealed safety glasses.
- · Body protection: Protective work clothing.

9 Physical and chemical properties:

· General Information

Form: Solid.
Colour: White
Smell: Odourless

· Change in condition

Melting point/Melting range: 340°C Boiling point/Boiling range: 520°C Flash point: -23°C

Inflammability (solid, gaseous) Product is not inflammable.
 Danger of explosion: Product is not explosive.

Steam pressure at 30°C: <1.3 hPa Density at 20°C 1.53 g/cm³

Settled apparent density at 20°C 500 kg/m³

· Solubility in / Miscibility with

Water at 20°C: 370 g/l pH-value (50 g/l) at 20°C: 4.5-5.5

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: Heat, boiling teperatures.
- · Materials to be avoided:
- · Dangerous reactions No dangerous reactions known
- · Dangerous products of composition: No dangerous decomposition products known

11 Toxicological information

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral LD50 1300 mg/kg (mouse)

(Contd. on page 4)



Printing date 26.08.2007 Revision: 26.08.2007

Trade name: Ammonium Chloride

(Contd. of page 3)

1650 mg/kg (rat)

- Primary irritant effect:
- · on the skin: No irritant effect.
- on the eye: irritation Irritant effect.
- · Sensitization: No sensitizing effect known.

12 Ecological information:

· General notes:

Water hazard class (D) 1 (Assessment by list): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

13 Disposal considerations

- · Product:
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

- · Land transport ADR/RID and GGVS/GGVE (cross-border/domestic) n/a
- · ADR/RID-GGVS/E Class:
- · Maritime transport IMDG/GGVSea: · IMDG/GGVSea Class:
- · Air transport ICAO-TI and IATA-DGR:
- · ICAO/IATA Class:

15 Regulatory information

Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

· Code letter and hazard designation of product:

Xn Harmful

- · Risk phrases:
- 22 Harmful if swallowed.
- *36 Irritating to eyes.*
- · Safety phrases:
- 22 Do not breathe dust.



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(Contd. of page 4)

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing data specification sheet: Quality Assurance Department
- · Contact: Sjors duteweert
- * Data compared to the previous version altered.

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