SAFETY DATA SHEET



Bakers No.3 125ml

1. Identification of the substance/preparation and of the company/undertaking

Product name

: Bakers No.3 125ml

Code

: 20417

Head Office

Cookson Electronics Forsyth Road Sheerwater Woking Surrey

GU21 5RZ Tel: +44(0)1483 758400 Fax: +44(0)1483 728837 Manufacturer

: Ashford Manufacturing Site Henwood Industrial Estate

Hythe Road Ashford Kent TN24 8DH

TN24 8DH Tel: +44 (0) 1233 610110

Fax: +44 (0) 1233 610110

2. Composition/information on ingredients

Substance/Preparation

: Preparation

Chemical name*	CAS no.	%	EC Number	Classification
Europe Zinc chloride Ammonium chloride See Section 16 for the full text of the R Phrases declared above	7646-85-7 12125-02-9	20-30 1-5	231-592-0 235-186-4	C; R34 N; R50/53 Xn; R22 Xi; R36

^{*} Occupational Exposure Limit(s), if available, are listed in Section 8

3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification

: C; R34 N; R51/53

Effects and symptoms

Inhalation

: Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking or shortness of breath. Overexposure by inhalation may cause respiratory irritation.

Ingestion

: May be fatal if swallowed. May cause burns to mouth, throat and stomach.

Skin contact

: Irritation of the product in case of skin contact: Not available. Sensitization of the product: Not available.

Corrosive to skin on contact. Skin contact may produce burns.

Eye Contact

: Corrosive to eyes.

Aggravating conditions

Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated
or prolonged exposure to spray mist may produce respiratory tract irritation, leading to frequent attacks of bronchial
infection.

4. First-aid measures

First-Aid measures

Inhalation

: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention immediately.

Ingestion

: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: In case of contact, immediately flush skin copiously with water for at least 15 minutes while removing contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention immediately.

Eye Contact

: Check for and remove any contact lenses. In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Cold water may be used. Obtain medical attention immediately.

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5. Fire-fighting measures

Extinguishing Media

Suitable : Not applicable.

Special fire-fighting procedures : Fire fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures

Personal Precautions

: Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Environmental precautions and cleanup methods

: Stop leak if without risk. Absorb with dry earth, sand or other noncombustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapour drift. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. **Neutralize the residue with a dilute solution of sodium carbonate.**

Note: See section 8 for personal protective equipment and section 13 for waste disposal.

Handling and storage

Handling

: Keep container dry. Do not ingest. Do not breathe gas/fumes/vapour/spray. Never add water to this product. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area.

Packaging materials

Recommended use : Use original container.

Danish Fire Class : Not applicable.

8. Exposure controls/personal protection

Engineering measures

: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.

Hygiene measures

 Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Ingredient Name

Europe

Zinc chloride

Ammonium chloride

Sweden

Zinc chloride

Denmark

Zinc chloride

Ammonium chloride

Norway

Zinc chloride

Ammonium chloride

France

Zinc chloride

Ammonium chloride

Netherlands

Zinc chloride

Ammonium chloride

Germany

Occupational Exposure Limits

ACGIH TLV (United States, 2001).

STEL: 2 mg/m³ 15 minute(s). Form: Fume TWA: 1 mg/m³ 8 hour(s). Form: Fume ACGIH TLV (United States, 2001).

STEL: 20 mg/m³ 15 minute(s). Form: Fume TWA: 10 mg/m³ 8 hour(s). Form: Fume

AFS (Sweden, 2000).

NGV: 1 mg/m³ 8 hour(s). Form: Dust

Arbejdstilsynet (Denmark, 2000).

GV: 0.5 mg/m³ 8 hour(s).

GV: 0.5 mg/m³ 8 hour(s). Form: Fume **Arbejdstilsynet (Denmark, 2000).**

GV: 10 mg/m³ 8 hour(s). Form: Fume

Arbeidstilsynet (Norway, 2001).

AN: 1 mg/m³ 8 hour(s).

Arbeidstilsynet (Norway, 2001).

AN: 10 mg/m³ 8 hour(s).

INRS (France, 1999). Notes: Not Legal VME: 1 mg/m³ 8 hour(s). Form: Fume INRS (France, 1999). Notes: Not Legal

VME: 10 mg/m³ 8 hour(s). Form: Fume

Nationale MAC-lijst (Netherlands, 2001). Notes: Tentative

TGG 8 uur: 1 mg/m³ 8 hour(s). Form: Fume

Nationale MAC-lijst (Netherlands, 2001). Notes: Tentative

TGG 8 uur: 10 mg/m3 8 hour(s). Form: Fume

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Finland

Zinc chloride Työterveyslaitos (Finland, 2001).

TWA: 1 mg/m³ 8 hour(s). Form: Fume

United Kingdom (UK)

Zinc chloride EH40-OES (United Kingdom (UK), 2002). Notes: OES

STEL: 2 mg/m³ 15 minute(s). Form: Fume TWA: 1 mg/m³ 8 hour(s). Form: Fume

Ammonium chloride EH40-OES (United Kingdom (UK), 2002). Notes: OES

STEL: 20 mg/m³ 15 minute(s). Form: Fume TWA: 10 mg/m³ 8 hour(s). Form: Fume

Austria

Switzerland

Ammonium chloride

Ammonium chloride

Zinc chloride SUVA (Switzerland, 2001). Notes: Not Temporary

MAK: 1 mg/m³ 8 hour(s). Form: Dust and fumes SUVA (Switzerland, 2001). Notes: Not Temporary

MAK: 6 mg/m³ 8 hour(s). Form: Dust

Belgium

Zinc chloride Lijst Grenswaarden (Belgium, 1998).

VCD: 2 mg/m³ 15 minute(s). Form: Fume VL: 1 mg/m³ 8 hour(s). Form: Fume **Lijst Grenswaarden (Belgium, 1998).** VCD: 20 mg/m³ 15 minute(s). Form: Fume

VL: 10 mg/m³ 8 hour(s). Form: Fume

Spain

Personal protective equipment

Respiratory system : Wear appropriate respirator when ventilation is inadequate.

Skin and body : Full suit.

Hands : Impervious gloves.

Eyes : Face shield.

9. Physical and chemical properties

Physical state : Liquid.

Colour : Colourless.
Odour : Characteristic.

pH : <2 (Conc. (% w/w): 100) [Acidic.]

Boiling point : 100°C (212°F)

Melting point : May start to solidify at -0.1°C (31.8°F) based on data for: water. Weighted average: -0.1°C (31.8°F)

Flash point : Not applicable.

Explosive properties : Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Oxidizing properties : Not available.

Density : 1.225 g/cm³ (20°C / 68°F)

Solubility : Easily soluble in cold water, hot water.

Viscosity : Kinetic: 2 cSt

Evaporation rate (butyl acetate = 1) : The highest known value is 0.36 (water) Weighted average: 0.36compared to (n-BUTYL ACETATE=1)

Stability and reactivity

Stability : The product is stable.

Hazardous decomposition products :

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11. Toxicological information

Acute toxicity

Ingredient Name	<u>Test</u>	Result	Route	Species
Zinc chloride	LD50	350 mg/kg	Oral	Rat
	LD50	200 mg/kg	Oral	Guinea pig
	LD50	329 mg/kg	Oral	Mouse
Ammonium chloride	LD50	1650 mg/kg	Oral	Rat
	LD50	1300 mg/kg	Oral	Mouse
	LDLo	600 mg/kg	Oral	Dog
	LDLo	1500 mg/kg	Oral	Domestic Animals.

Local effects

Skin irritation : Hazardous in case of skin contact (corrosive).

Eye irritation : Hazardous in case of eye contact (corrosive).

Chronic toxicity

Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated
or prolonged exposure to spray mist may produce respiratory tract irritation, leading to frequent attacks of bronchial
infection.

12. Ecological information

Ecotoxicity Data

Ingredient Name	<u>Species</u>	<u>Period</u>	Result
Zinc chloride	Daphnia magna (EC50)	48 hours	2.8 mg/l
	Oncorhynchus mykiss (LC50)	96 hours	0.066 mg/l
	Daphnia magna (LC50)	96 hours	0.06791 mg/l
Ammonium chloride	Oncorhynchus mykiss (LC50)	96 hours	0.08 mg/l
	Pimephales promelas (LC50)	96 hours	0.25 mg/l

13. Disposal considerations

Methods of disposal; Waste of residues; Contaminated packaging

: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

European Waste Catalogue (EWC)

: Not available.

Hazardous Waste

: The classification of the product may meet the criteria for a hazardous waste

14. Transport information

International transport regulations

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
ADR/RID Class	1760	Corrosive liquid, n.o.s. (Zinc chloride)	8	III		Hazard identification number 80 CEFIC Tremcard 80GC9-III
IMDG Class	1760	Corrosive liquid, n.o.s. (Zinc chloride)	8	Ш		Emergency Schedules (EmS) 8-15
IATA-DGR Class	1760	Corrosive liquid, n.o.s. (Zinc chloride)	8	III		-

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15. Regulatory information

EU Regulations

Hazard symbol(s)

Safety Phrases





Corrosive, Dangerous for the environment

Risk Phrases R34- Causes burns.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S1/2- Keep locked up and out of the reach of children.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S29- Do not empty into drains.

S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S57- Use appropriate containment to avoid environmental contamination.

S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.

Contains : Zinc chloride 231-592-0

Product Use Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including

amendments and the intended use. - Consumer applications, Industrial applications.

Other EU regulations

Child protection Yes, applicable. Tactile warning of danger Yes, applicable. **EC Statistical Classification** : 32089091 (Tariff Code)

National regulations

Denmark

MAL-code : 00-4

Netherlands

K-Klasse : K5 **CPR SHHR** : 6FZ

Germany

Employment restrictions in accordance with § 15b of the

Hazardous Substance

Ordinance

Hazardous Incident Ordinance

Ordinance on Combustible

Liquids

: Class: Omitted

Hazard class for water

Other information **16.**

Full text of R-Phrases with no. appearing in Section 2 - Europe R22- Harmful if swallowed.

R34- Causes burns. R36- Irritating to eyes.

R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Text of classifications appearing in

Section 2 - Europe

: C - Corrosive Xn - Harmful Xi - Irritant

: Yes.

N - Dangerous for the environment.

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: 19/12/2003. **Date of printing** 03/11/2003. Date of issue

Date of previous issue No Previous Validation.

Version : 1

Prepared by Simon Hosken

Environmental, Health and Safety Manager

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Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any

liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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