SAFETY DATA SHEET



Bakers No.3 125ml

1. Identification of the preparation and of the company

	Product name	:	Bakers No.3 125ml			
	Code	:	61037			
	Head Office	:	Cookson Electronics Forsyth Road Sheerwater Woking Surrey England GU21 5RZ Tel: +44(0)1483 758400 Fax: +44(0)1483 728837	Manufacturer	:	Cookson Electronics Koenendelseweg 29 5222 BG 's-Hertogenbosch The Netherlands Tel: +31 73 6280 111 Fax: +31 73 6219 283
	Contact person	:	shosken@cooksonelectronics.com			
	Material uses	:	soldering			
)	Hazards	; i	dentification			
	and the state of the state of the		d aa dawaaaaa a aaaadina ta Dina	1	.1.14.	

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

Classification	: C; R34 N; R50/53
Effects and symptoms	
Inhalation	Inhalation of the spray or mist may produce severe irritation of respiratory tract, characterised by coughing, choking or shortness of breath. Over-exposure by inhalation may cause respiratory irritation. May be fatal if inhaled.
Ingestion	May cause burns to mouth, throat and stomach.
Skin contact	Hazardous by the following route of exposure: of skin contact (corrosive).
Eye contact	Hazardous by the following route of exposure: of eye contact (corrosive).
Toxicity data	Not available.
See section 11 for more detail	ed information on health effects and symptoms.

3 Composition/information on ingredients

Substance/preparation : Preparation

Ingredient name	CAS number	%	EC number	Classification
Europe				
zinc chloride	7646-85-7	20 - 30	231-592-0	Xn; R22 C; R34 N; R50/53
ammonium chloride	12125-02-9	1 - 5	235-186-4	Xn; R22 Xi; R36
See section 16 for the full text of the R-phrases declared above				

Occupational exposure limits, if available, are listed in section 8.

The classifications listed, indecate the potential hazards of the ingredients

2



4. First-aid measures

First-aid measures	
Inhalation	: Get medical attention immediately. Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Ingestion	: Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Get medical attention immediately. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Eye contact	: Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
See section 11 for more de	tailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media	
Suitable	: Use an extinguishing agent suitable for the surrounding fire.
Not suitable	: None known.
Special exposure hazards	: In a fire or if heated, a pressure increase will occur and the container may burst.
	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	 Decomposition products may include the following materials: nitrogen oxides halogenated compounds metal oxide/oxides
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

: 06/05/2011.



6. Accidental release measures

Personal precautions	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Note: see section 1 for emergency contact information and section 13 for waste disposal.
Small spill	-	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a

licensed waste disposal contractor.

7. Handling and storage

Handling	:	Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Refer to special instructions/safety data sheet. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.
Storage	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
Packaging materials		

Recommended

: Use original container.

8. Exposure controls/personal protection

Exposure limit values		
Ingredient name	Occupational exposure limits	
Europe		
zinc chloride	ACGIH TLV (United States, 1/2008). STEL: 2 mg/m ³ 15 minute(s). Form: Fur TWA: 1 mg/m ³ 8 hour(s). Form: Fume	ne
ammonium chloride	ACGIH TLV (United States, 1/2008). STEL: 20 mg/m ³ 15 minute(s). Form: Fu TWA: 10 mg/m ³ 8 hour(s). Form: Fume	
Sweden		
zinc chloride	AFS 2005:17 (Sweden, 6/2007). TWA: 1 mg/m³ 8 hour(s). Form: respiral	ble dust
Date of issue	: 06/05/2011.	3/14



Exposure controls/personal protection 8.

Denmark

zinc chloride

ammonium chloride

Norway zinc chloride

ammonium chloride

France zinc chloride

ammonium chloride

Netherlands zinc chloride

Germany

No exposure limit value known.

Finland zinc chloride

ammonium chloride

United Kingdom (UK) zinc chloride

ammonium chloride

Austria No exposure limit value known.

Switzerland

zinc chloride

ammonium chloride

Belgium zinc chloride

ammonium chloride

Spain zinc chloride

ammonium chloride

Date of issue

: 06/05/2011.

Arbejdstilsynet (Denmark, 3/2008). Notes: calculated as Zn TWA: 0.5 mg/m³, (calculated as Zn) 8 hour(s). TWA: 0.5 mg/m³, (calculated as Zn) 8 hour(s). Form: fume Arbejdstilsynet (Denmark, 3/2008). TWA: 10 mg/m³ 8 hour(s). Form: fume

Arbeidstilsynet (Norway, 11/2007). TWA: 1 mg/m³ 8 hour(s). Arbeidstilsynet (Norway, 11/2007). TWA: 10 mg/m³ 8 hour(s).

INRS (France, 12/2007). Notes: indicative exposure limits TWA: 1 mg/m³ 8 hour(s). Form: fume INRS (France, 12/2007). Notes: indicative exposure limits TWA: 10 mg/m³ 8 hour(s). Form: fume

Nationale MAC-lijst (Netherlands, 7/2006). Notes: Administrative OEL, 8-h TWA: 1 mg/m³ 8 hour(s). Form: fume

Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 8/2007). TWA: 1 mg/m³ 8 hour(s). Form: fume Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 8/2007). TWA: 10 mg/m³ 8 hour(s).

EH40/2005 WELs (United Kingdom (UK), 8/2007). STEL: 2 mg/m³ 15 minute(s). Form: Fume TWA: 1 mg/m³ 8 hour(s). Form: Fume EH40/2005 WELs (United Kingdom (UK), 8/2007). STEL: 20 mg/m³ 15 minute(s). Form: Fume TWA: 10 mg/m³ 8 hour(s). Form: Fume

SUVA (Switzerland, 1/2007). Notes: not temporary TWA: 1 mg/m³ 8 hour(s). Form: respirable dust and fumes SUVA (Switzerland, 1/2007). Notes: not temporary TWA: 3 mg/m³ 8 hour(s). Form: respirable dust

Lijst Grenswaarden / Valeurs Limites (Belgium, 6/2007). STEL: 2 mg/m³ 15 minute(s). Form: fume TWA: 1 mg/m³ 8 hour(s). Form: fume Lijst Grenswaarden / Valeurs Limites (Belgium, 6/2007). STEL: 20 mg/m³ 15 minute(s). Form: fume

TWA: 10 mg/m³ 8 hour(s). Form: fume

INSHT (Spain, 1/2008). STEL: 2 mg/m³ 15 minute(s). Form: fume TWA: 1 mg/m³ 8 hour(s). Form: fume INSHT (Spain, 1/2008). STEL: 20 mg/m³ 15 minute(s). Form: fume TWA: 10 mg/m³ 8 hour(s). Form: fume



8. Exposure controls/personal protection

Turkey

zinc chloride

ammonium chloride

Czech Republic

zinc chloride

ammonium chloride

Ireland

zinc chloride

ammonium chloride

Italy

zinc chloride

ammonium chloride

Estonia

zinc chloride

Lithuania zinc chloride

ammonium chloride

Slovakia No exposure limit value known.

Hungary No exposure limit value known.

Poland zinc chloride

ammonium chloride

Slovenia No exposure limit value known.

Latvia ammonium chloride

Greece

NIOSH REL (United States, 6/2008). STEL: 2 mg/m³ 15 minute(s). Form: Fume TWA: 1 mg/m³ 10 hour(s). Form: Fume

NIOSH REL (United States, 6/2008). STEL: 20 mg/m³ 15 minute(s). Form: Fume TWA: 10 mg/m³ 10 hour(s). Form: Fume

178/2001 (Czech Republic, 12/2007). STEL: 2 mg/m³ 15 minute(s). TWA: 1 mg/m³ 8 hour(s). **178/2001 (Czech Republic, 12/2007).** STEL: 10 mg/m³ 15 minute(s). Form: fume TWA: 5 mg/m³ 8 hour(s). Form: fume

NAOSH (Ireland, 8/2007). OELV-15min: 2 mg/m³ 15 minute(s). Form: fume OELV-8hr: 1 mg/m³ 8 hour(s). Form: fume NAOSH (Ireland, 8/2007). OELV-15min: 20 mg/m³ 15 minute(s). Form: fume OELV-8hr: 10 mg/m³ 8 hour(s). Form: fume

ACGIH TLV (United States, 1/2008).

STEL: 2 mg/m³ 15 minute(s). Form: Fume TWA: 1 mg/m³ 8 hour(s). Form: Fume **ACGIH TLV (United States, 1/2008).** STEL: 20 mg/m³ 15 minute(s). Form: Fume TWA: 10 mg/m³ 8 hour(s). Form: Fume

Sotsiaalminister (Estonia, 10/2007). TWA: 1 mg/m³ 8 hour(s). Form: inhalable dust

Del Lietuvos Higienos Normos (Lithuania, 10/2007). TWA: 1 mg/m³ 8 hour(s). Form: alveolar Del Lietuvos Higienos Normos (Lithuania, 10/2007). TWA: 10 mg/m³ 8 hour(s).

Ministra Pracy i Polityki Społecznej (Poland, 9/2007). STEL: 2 mg/m³ 15 minute(s). Form: smokes TWA: 1 mg/m³ 8 hour(s). Form: smokes Ministra Pracy i Polityki Społecznej (Poland, 9/2007). STEL: 20 mg/m³ 15 minute(s). Form: vapours and smokes TWA: 10 mg/m³ 8 hour(s). Form: vapours and smokes

LV Nat. Standardisation and Meterological Centre (Latvia, 5/2007). TWA: 10 mg/m³ 8 hour(s).

Date of issue

: 06/05/2011.



Bakers No.3 125ml	
8. Exposure con	trols/personal protection
zinc chloride ammonium chloride	PD 90/1999 (Greece, 8/2007). STEL: 2 mg/m ³ 15 minute(s). TWA: 1 mg/m ³ 8 hour(s). PD 90/1999 (Greece, 8/2007).
	STEL: 20 mg/m ³ 15 minute(s). Form: fume TWA: 10 mg/m ³ 8 hour(s). Form: fume
Portugal	
zinc chloride	Instituto Português da Qualidade (Portugal, 3/2007). STEL: 2 mg/m³ 15 minute(s). Form: fume TWA: 1 mg/m³ 8 hour(s). Form: fume
ammonium chloride	Instituto Português da Qualidade (Portugal, 3/2007). STEL: 20 mg/m ³ 15 minute(s). Form: fume TWA: 10 mg/m ³ 8 hour(s). Form: fume
Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.
Exposure controls	
Occupational exposure controls	 If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Respiratory protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: inorganic gases/vapours filter (Type B)FFB2P3 EN405:2002
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. 4-8 hours (breakthrough time): nitrile rubber
Eye protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: face shield EN 166 3 9 -B
Skin protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: overall
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

General information				
<u>Appearance</u>				
Physical state	: Liquid.			
Colour	: Colourless.			
Odour	: Characteristic.			
Important health, safety and environmental information				
рН	: <2 [Conc. (% w/w): 100%]			

Date of issue	: 06/05/2011.	6/14
		Powered by

Physical and chemical properties 9.

Boiling point

: 100°C (212°F)

U	
Relative density	: 1.225
Solubility	: Easily soluble in the following materials: cold water and hot water.
Viscosity	: Kinematic: 0.02 cm ² /s (2 cSt)
VOC content	: 0 % (w/w) [ISO % 11890-2]

10. Stability and reactivity

Stability	: The product is stable.
Conditions to avoid	: Avoid release to the environment. Refer to special instructions/safety data sheet.
Materials to avoid	 Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Potential acute health effects

Inhalation	May give off gas, vapor or dust that is very irritating or corrosive to the respirato system. Exposure to decomposition products may cause a health hazard. Seri effects may be delayed following exposure.	
Ingestion	May cause burns to mouth, throat and stomach.	
Skin contact	Corrosive to the skin. Causes burns.	
Eye contact <u>Acute toxicity</u>	Corrosive to eyes. Causes burns.	

Over-exposure signs/symptoms

: Contains material which may cause damage to the following organs: lungs, cardiovascular system, upper respiratory tract, skin, eye, lens or cornea.

12. Ecological information

Aquatic ecotoxicity

Target organs

Product/ingredient name zinc chloride	Test -	Result Acute EC50 164 to 170 ug/L Fresh water		Exposure 48 hours
	-	Acute EC50 100 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - 12 hours	48 hours
	-	Acute EC50 81 to 94 ug/L Fresh water	Crustaceans - Calanoid copepod - Diaptomus leptopus	48 hours
	-	Acute EC50 73 to 82 ug/L Fresh water		48 hours
Date of issue	: 06/05/2011.			7/14



12. Ecological information

_

	Diaptomus leptopus	40 h
Acute EC50 52 to 94 ug/L Fresh water	Crustaceans - Cyclopoid copepod - Tropocyclops prasinus mexicanus - 0.54 mm	48 hours
Acute LC50 0.21 mg/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	48 hours
Acute LC50 260 to 350 ug/L Fresh water	Daphnia - Water flea - Daphnia pulex - >=6 days	48 hours
Acute LC50 232.488 to 251.478 ug/L Fresh water	Daphnia - Water flea - Daphnia pulex - Adult	48 hours
Acute LC50 210 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	48 hours
Acute LC50 205.31 ug/L Fresh water	Crustaceans - Water flea - Moina irrasa - Neonate - <24 hours	48 hours
Acute LC50 163 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - <4 hours	48 hours
Acute LC50 152.51 ug/L Fresh water	Crustaceans - Water flea - Moina irrasa - Neonate - <24 hours	48 hours
Acute LC50 127.7 to 151.9 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - <24 hours	48 hours
Acute LC50 100 ug/L Fresh water	Fish - Striped bass - Morone saxatilis - LARVAE	96 hours
Acute LC50 97 to 108 ug/L Fresh water	Fish - Chinook salmon - Oncorhynchus tshawytscha - Swim-up - 0.23 g	96 hours
Acute LC50 97 to 112 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - FRY - 2.36 to 3.01 g	96 hours
Acute LC50 95 to 159 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling,	96 hours



12. Ecological information

	Weanling) - 7 months - 8.6 cm - 4.95 g	
Acute LC50 93 to 107 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus	96 hours
	mykiss - Swim- up - 0.17 g	
Acute LC50 92.88 ug/L Fresh water	Crustaceans - Water flea - Moina irrasa - Neonate - <24 hours	48 hours
Acute LC50 77.46 ug/L Fresh water	Crustaceans - Water flea - Moina irrasa - Neonate - <24 hours	48 hours
Acute LC50 66 to 79 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - FRY - 2.36 to 3.01 g	96 hours
Acute LC50 59.24 ug/L Fresh water	Crustaceans - Water flea - Moina irrasa - Neonate - <24 hours	48 hours
Acute LC50 49.99 ug/L Fresh water	Crustaceans - Water flea - Moina irrasa - Neonate - <24 hours	48 hours
Acute LC50 30 ug/L Marine water	Fish - Inland silverside - Menidia beryllina - 14 days	96 hours
Chronic LOAEL 250 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	2 days
Chronic NEL 170 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	2 days
Chronic NOEC 0.275 mg/l Fresh water	Daphnia - Water flea - Daphnia magna - Neonate	48 hours
Chronic NOEC 40 ug/l Fresh water	Fish - Mozambique tilapia - Tilapia mossambica - 20 cm - 90 g	96 hours
Acute EC50 261 ug/L Marine water	Crustaceans - American lobster - Homarus americanus - LARVAE - 22 to 63 mg	48 hours
Acute LC50 2.88 to 3.74 mg/L Fresh water	Daphnia - Water flea - Ceriodaphnia	48 hours

ammonium chloride

Date of issue



12. Ecological information

	dubia - Neonate - <24 hours	
Acute LC50 2.63 to 3.11 mg/L	Daphnia - Water flea -	48 hours
Fresh water	Ceriodaphnia dubia - Neonate - <24 hours	
Acute LC50 >1.43 mg/L	Daphnia - Water flea -	48 hours
Fresh water	Ceriodaphnia dubia - Neonate - 24 hours	
Acute LC50 1.06 to 1.15 mg/L	Daphnia - Water flea -	48 hours
Fresh water	Ceriodaphnia dubia - Neonate - 24 hours	
Acute LC50 0.46 to 0.54 mg/L	Daphnia - Water flea -	48 hours
Fresh water	Ceriodaphnia dubia - Neonate - 24 hours	
Acute LC50 0.28 mg/L Fresh water		48 hours
	Ceriodaphnia dubia - Neonate - 24 hours	
Acute LC50 0.16 mg/L Fresh water	Fish - Rainbow trout,donaldson trout -	96 hours
	Oncorhynchus mykiss - FRY - 1.7 to 1.9 cm	
Acute LC50 0.14 mg/L Marine	Fish - Atlantic silverside -	96 hours
water	Menidia menidia - Juvenile (Fledgling,	
	Hatchling, Weanling)	
Acute LC50 2940 ug/L Fresh water	Daphnia - Water flea - Daphnia	48 hours
Acute LC50 1460 ug/L Fresh water	magna - Neonate Crustaceans - Shrimp - Paratya	48 hours
	curvirostris - Adult	
Acute LC50 1420 ug/L Fresh water	Crustaceans - Shrimp - Paratya curvirostris -	48 hours
Acute LC50 1290	Adult Crustaceans -	48 hours
ug/L	Penaeidean shrimp -	
Aguta L CEO 1050	Penaeus sp 500 to 1500 mg	19 houro
Acute LC50 1050 ug/L Fresh water	Crustaceans - Water flea - Simocephalus	48 hours
Acute LC50 1030	vetulus - Adult Daphnia - Water	48 hours
ug/L Fresh water	flea - Ceriodaphnia dubia - Neonate -	



12. Ecological information

_

Acute LC50 1000 ug/L Fresh water	<24 hours Crustaceans - Giant river prawn - Macrobrachium rosenbergii - Post-larvae - 9.6 mm - 12.9 mg	48 hours
Acute LC50 990 ug/L Marine water	Crustaceans - Daggerblade grass shrimp - Palaemonetes pugio - Juvenile (Fledgling, Hatchling, Weanling) - 20 mm	48 hours
Acute LC50 960 ug/L Fresh water	Daphnia - Water flea - Daphnia pulicaria	48 hours
Acute LC50 810 ug/L Fresh water	Crustaceans - Giant river prawn - Macrobrachium rosenbergii - Juvenile (Fledgling, Hatchling, Weanling) - 34.5 mm - 836 mg	48 hours
Acute LC50 390 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Young	48 hours
Acute LC50 177.6 ug/L Fresh water	Fish - Coho salmon,silver salmon - Oncorhynchus kisutch - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
Acute LC50 166 ug/L Fresh water	Fish - Lake trout, siscowet - Salvelinus namaycush - 1.6 g	96 hours
Acute LC50 160 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours
Acute LC50 160 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	4 days
Acute LC50 148 ug/L Fresh water	Fish - Lake trout, siscowet - Salvelinus namaycush - 1.6 g	96 hours
Acute LC50 147 ug/L Fresh water	Fish - Lake trout, siscowet - Salvelinus namaycush - 1.6 g	96 hours



Bakers No.3 125ml				
12. Ecological i	nformation			
	-	Acute LC50 110 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours
	-	Acute LC50 80 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours
	-	Acute LC50 20 to 50 ug/L Fresh water	Crustaceans - Giant river prawn - Macrobrachium rosenbergii - Post-larvae - 9.6 mm - 12.9 mg	48 hours
Biodegradability				
Other adverse effects	: No known significant effect	cts or critical hazards.		
ΑΟΧ	: The product does not con AOX value in waste water		halogens which co	ould lead to an

13. Disposal considerations

-		
Methods of disposal	:	The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
European waste catalogue (EWC)	:	16 03 03* inorganic wastes containing dangerous substances
Hazardous waste	:	Yes.

14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class	1760	Corrosive liquid, n.o.s. (zinc chloride)	8	111		Hazard identification number 80 CEFIC Tremcard 80GC9-III
IMDG Class	1760	Corrosive liquid, n.o.s. (zinc chloride)	8	111		Emergency schedules (EmS) F-A, S-B
Date of issue	:	06/05/2011.				12/1



Bakers No.3 12	Bakers No.3 125ml						
14. Trans	sport info	ormation					
IATA Class	1760	Corrosive liquid, n.o.s. (zinc chloride)	8			Passenger and Cargo Aircraft Quantity limitation: 5 L Cargo Aircraft Only Quantity limitation: 60 L	

PG* : Packing group

15. Regulatory information

EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Hazard symbol or symbols	Corrosive	e, Dangerous for the environment	
Risk phrases	R34- Causes burns. R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		
Safety phrases	 S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 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 sheet. 		
Contains	zinc chlo	ride	231-592-0
Product use	Industrial	l applications.	
<u>Germany</u>			
Hazardous incident ordinance	Applicable	e. Category: 9a Dangerous for the	e environment.
Hazard class for water	3 Appendix No. 4		
<u>Italy</u>			
Emission control directive	Not class	sified.	

16. Other information

Date of issue	:	06/05/2011.	13/14
Version	÷	6	
Date of previous issue	;	18/02/2011.	
Date of issue	4	06/05/2011.	
Date of printing	;	20/07/2011.	
<u>History</u>			
Full text of classifications referred to in sections 2 and 3 - Europe	:	C - Corrosive Xn - Harmful Xi - Irritant N - Dangerous for the environment	
Full text of R-phrases referred to in sections 2 and 3 - Europe	:	 R22- Harmful if swallowed. R34- Causes burns. R36- Irritating to eyes. R50/53- Very toxic to aquatic organisms, may cause long-term adverse effect aquatic environment. 	ts in the



16. Other information

Prepared by

Simon Hosken

Environmental, Health and Safety Manager

✓ Indicates information that has changed from previously issued version.

5

References

The Health and Safety At Work Act 1974, section 6. Control of Substances Hazardous to Health (CoSHH) Regulations 2002 and its amendments.

Preparation contains soley TSCA and REACh 1907/2006 listed substances.

This safety data sheet has been prepared in accordance with the requirements of the Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 which implement EC Directives 1999/45/EC and 2001/58/EC and their amendments.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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.

