

Safety Data Sheet

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REVISION (see box 16)

Issue : 02 14 : 08 : 2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY	
Product Name	IT 600K
Description	A water treatment chemical for use by service staff. Product is a clear, colourless to pale yellow liquid blend, containing corrosion inhibitors and a dispersant.
Company	Rentokil Initial Supplies, Webber Road, Knowsley Industrial Park, Liverpool, L33 7SR. For general enquiries telephone: +44 (0) 151 548 5050. For safety or regulatory enquiries telephone: + 44 (0) 1342 833022.

2 HAZARD IDENTIFICATION	
Classification (Supply – Use) : In compliance with EC Directive 1999/45.	
T Toxic	R25 Toxic if swallowed
N Dangerous for the Environment	R50 Very toxic to aquatic organisms
Adverse Physical, Chemical, Significant Human Health and Environmental Effects (See also box 11):	
Toxic if swallowed. May cause nausea, headache, dizziness, weakness and shortness of breath. In severe cases methaemoglobinaemia may occur and could prove fatal.	
Very toxic to aquatic organisms, avoid release to the environment.	

3 COMPOSITION / INFORMATION ON INGREDIENTS (SEE ALSO BOX 16)		
% w/w	Common*/Chemical Name, Elincs/Einecs & CAS No. of Ingredients	EC 1999/45 Classification
>25.0 ≤50.0	Sodium nitrite EINECS : 231-555-9 CAS : 7632-00-0	T : R25 O : R8 N : R50
≤1.0	Sodium hydroxide EINECS : 215-185-5 CAS : 1310-73-2	C : R35

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4 FIRST-AID MEASURES (SEE ALSO “ADVERSE EFFECTS” IN BOX 2)	
Inhalation	Remove patient to fresh air, keep warm and at rest. Apply supportive measures if necessary and seek medical attention.
Eye Contact	Rinse affected eye with clean running water, or eyewash solution, for at least 15 minutes holding eyelids well apart. Rinse entire surface and do not allow run-off to contaminate unaffected eye. Seek medical attention.
Skin Contact	Remove and wash contaminated clothing immediately. Wash affected area thoroughly with soap and water. If the patient feels unwell seek medical advice.
Ingestion (Swallowing)	Do NOT induce vomiting. If unconscious place in the recovery position and apply supportive measures if necessary. If conscious give patient up to ½ litre or 1 pint of water to drink. Seek medical attention.
Emergency Equipment Suggested	Appropriate first-aid equipment should be provided. For the UK this should be in accordance with the Health & Safety (First-Aid) Regulations 1981. See also the Approved Code of Practice “First-aid at Work”.
Note To Doctor	Further information on all Rentokil Initial formulations is lodged with the National Poisons Information Service in the UK.

5 FIRE FIGHTING MEASURES	
Fire Extinguisher Type	Product is non-combustible. However, in the event of a fire use carbon dioxide, foam, water, or dry powder extinguishers.
Special Fire-Fighting Procedures	Wear self-contained breathing apparatus and suitable personal protective equipment.
Special Exposure Hazards	Thermal decomposition may evolve toxic and irritant vapours.

6 ACCIDENTAL RELEASE MEASURES	
Personal Precautions (See also box 8)	Wear suitable personal protective equipment.
Environmental Precautions	This product is classified as dangerous for the environment. Keep away from drains, surface and ground water, and soil.
Clean-up Procedure (See also box 13)	Absorb spill with an inert material such as sand, earth or sawdust. Transfer to a suitable container for subsequent disposal.

7 HANDLING AND STORAGE (SEE ALSO BOX 8)	
Handling	No specific handling requirements.
Storage	Store in original container in a cool, dry, ventilated place out of the reach of children and away from food, drink and animal feeding stuffs.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION	
Exposure Standard - Directive EC/98/24 (1st IOELV Directive)	Workplace Exposure Limit (WEL) for sodium hydroxide is 2 mg/m ³ short-term exposure (15 minute reference period).
Engineering Controls	Where exposure may occur, engineering controls, rather than the provision of Personal Protective Equipment (PPE) should be employed. On completion of a risk assessment, the following PPE may be required:
Eye Protection	Suitable eye protection such as goggles.
Hand Protection	Suitable hand protection such as chemical-resistant gloves.
Skin Protection	Suitable skin protection such as coveralls.
Breathing Protection	Suitable respiratory protection such as a respirator.
Environmental Exposure Controls	Use only in accordance with instructions given. An ecological hazard assessment indicates no specific restrictions on environmental release.

9 PHYSICAL AND CHEMICAL PROPERTIES			
Appearance and Odour	Clear, colourless to pale yellow liquid.		
pH	12.5 at 20°C	Solubility in Water	Miscible.
Specific Gravity	1.3 at 20°C	Solubility in Other Solvents	Not determined.
Flash Point	Not applicable.	Explosive Properties	None known.
Flammability	Non-flammable.	Combustibility	Non-combustible.
Boiling Point/Range	Starts at ca. 100°C	Oxidising Properties	Product may react readily with oxidisable materials. Contact with combustible materials may cause a fire.
Vapour Density	Not determined.	Evaporation Rate	Not determined.
Vapour Pressure	Not determined.	Partition Coefficient	Not applicable.
Viscosity	Not determined.	Other Data	None.

10 STABILITY AND REACTIVITY

Conditions to avoid	Avoid extremes of temperature, e.g. below 0°C and above 40°C.
Materials to avoid	Avoid contact with combustible material, reducing agents, amines, ammonium compounds and cyanides.
Hazardous Breakdown Products	Thermal decomposition may evolve toxic and irritant vapours.

11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)


Acute Toxicity	Oral	Toxic if swallowed. May cause nausea, headache, dizziness, weakness and shortness of breath. In severe cases methaemoglobinaemia may occur and could prove fatal.
	Inhalation	Not determined.
	Dermal	Not determined.
Corrosivity/Irritation	Skin	May be irritating to skin.
	Eyes	May cause eye irritation.
	Respiratory tract	Not determined.
Sensitisation	Skin	Contains no known skin sensitisers.
	Respiratory	Contains no known respiratory sensitisers.
Repeat-Dose Toxicity		Product does not contain any components known to have any effects relating to repeated-dose toxicity.
Mutagenicity		Product does not contain any components known to have a mutagenic effect.
Carcinogenicity		For sodium nitrite: May react with secondary or tertiary amines in the diet to form carcinogenic nitrosamines.
Reproductive Toxicity	Fertility	Product does not contain any components known to have effects on fertility.
	Development	Product does not contain any components known to be toxic to the reproductive system.
Other Information		None known.

12 ECOLOGICAL INFORMATION

General Information	This product is classified as very toxic to aquatic organisms. However, when used in accordance with instructions given, controlled release of this product is not expected to cause environmental contamination.
Ecotoxicity Data	For sodium nitrite: LC ₅₀ (Rainbow trout) (96h) 0.56 – 17.4 mg/L EC ₅₀ (<i>Daphnia magna</i>) (24h) 87 – 144 mg/L A study in fish has shown that repeated exposures produce no adverse effect on growth rate up to the concentration of 0.05 mg/L
Mobility	For sodium nitrite: Predicted to have high mobility in soil.
Persistence and Degradability	For sodium nitrite: Substantially biodegradable in water.
Bioaccumulative Potential	For sodium nitrite: Low potential for bio-accumulation.
Other Adverse Effects	For sodium nitrite: There is evidence of inhibition of aerobic processes in effluent treatment.

13 DISPOSAL CONSIDERATIONS

Disposal of Waste / Containers	Under normal circumstances, waste / empty containers will be disposed of by Rentokil Initial.	
Classification (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC))	<u>Hazard Code</u> : H6 – Toxic; H14 - Ecotoxic	
Note for Disposal	<u>Components making the waste hazardous</u> Sodium nitrite	<u>Concentrations (%)</u> : >50.0 ≤100.0
	For further advice about disposal, in the UK, contact the local office of the Environment Agency (England and Wales) or Scottish Environment Protection Agency. Local rate from anywhere in the UK: +44 (0) 870 850 6506.	

14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)				
UN No.	UN3287	TREMCARD REFERENCE No.	61GT4-III	RIS Code
Transport Category	2	UK HAZCHEM EAC	2X	PIT600K
ADR 2005 (International Road)	CLASS 6.1 ADR HIN 60			Labels
Proper Shipping Name	TOXIC LIQUID, INORGANIC, N.O.S. (contains sodium nitrite)			
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 3 litres. Maximum quantity per outer package is 30 kg. Combination packs only.			
Special Requirements	Not required. Packing Group III			
IMDG 2004 (Sea)	Class 6.1 IMDG EMS F-A, S-A			
Proper Shipping Name	TOXIC LIQUID, INORGANIC, N.O.S. (contains sodium nitrite)			
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 5 litres. Maximum quantity per outer package is 30 kg. Combination packs only.			
Special Requirements	Not required. Packing Group III			
Note for Transport	Local, State or National requirements may apply to the carriage of this product.			

15 REGULATORY INFORMATION (HEALTH AND SAFETY INFORMATION (SEE ALSO BOX 2))	
Safety Phrases	<p>S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.</p> <p>S45 : In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).</p> <p>S60 : This material and its container must be disposed of as hazardous waste.</p> <p>S61 : Avoid release to the environment. Refer to special instructions / safety data sheet.</p>
Additional Label Phrases	Not required.
Legislation	<p>Labelling is in accordance with UK regulations implementing the EC Directive 1999/45.</p> <p>Additional labelling requirements may be necessary in accordance with other National legislation. Outside the UK, the registration of this product may be necessary before use and any additional local requirements must be observed at all times.</p> <p>The information given on this Safety Data Sheet (SDS) does not constitute an assessment in accordance with Control of Substances Hazardous to Health (COSHH) Regulations 2002, in the UK. Other National measures or guidance should be followed where appropriate.</p>

16 Other Information and indication of revisions	
Packaging Information	A 12.5 litre plastic container with a screw top.
Revisions	Changes have been made to the content of boxes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 & 16 (as indicated by the thick lines on the left-hand side of the boxes) compared with issue 01.
Risk phrase text (From box 3 - These refer to the ingredients only. See box 2 for the product risk phrases)	<p>R8 : Contact with combustible material may cause fire.</p> <p>R25 : Toxic if swallowed.</p> <p>R35 : Causes severe burns.</p> <p>R50 : Very toxic to aquatic organisms.</p>

IT 600K

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Before using any product, ensure that you read and understand its label.

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