

Safety Data Sheet

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REVISION (see box 16)

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT NAME	DT401L
DESCRIPTION	A green liquid with a no discernible odour. For use as a high performance microbicide to kill and inhibit growth of micro-organisms in water-based systems.
COMPANY	Rentokil Initial Supplies, Head office: Felcourt, East Grinstead, West Sussex. RH19 2JY. United Kingdom. Telephone: +44 (0)1342 833022 Facsimile: +44 (0)1342 326229

2 HAZARD IDENTIFICATION

CLASSIFICATION AND DANGER SYMBOL (SUPPLY – USE): In compliance with EC Directive 1999/45.		
C Corrosive	R34 R43	Causes burns. May cause sensitisation by skin contact.
Dangerous for the environment	R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
		
CORROSIVE		
ADVERSE PHYSICOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL EFFECTS (See also box 11):		
Will cause irritation and burns on contact with eyes and skin. May cause sensitisation by skin contact so that subsequent contact causes severe irritation. Inhalation of the mist or vapour may cause irritation of the respiratory system. Ingestion may cause irritation to the digestive system.		
Adverse effects on the environment are unlikely, provided that the product is used as intended.		

3 COMPOSITION / INFORMATION ON INGREDIENTS

% w/w	COMMON*/CHEMICAL NAME, ELINCS/EINECS AND CAS OF INGREDIENTS	EC 1999/45 CLASSIFICATION
>10 ≤25	An aqueous solution containing isothiazolones. EINECS : Not applicable. CAS : Not applicable.	C - Corrosive : R34 : Causes burns. : R20/21/22 : Harmful by inhalation, in contact with skin and if swallowed. : R43 : May cause sensitisation by skin contact. N- Dangerous for the environment : R51/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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. Telephone +44 (0) 870 600 6266 - 24 hours.

5 FIRE FIGHTING MEASURES

FIRE EXTINGUISHER TYPE	Use dry powder, water-spray or foam extinguishers.
SPECIAL FIRE-FIGHTING PROCEDURES	Wear suitable personal protective equipment.
SPECIAL EXPOSURE HAZARDS	Products of combustion are toxic.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS (See also box 8)	Wear suitable personal protective equipment.
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. DO NOT contaminate watercourses or ground.

7 HANDLING AND STORAGE

HANDLING	Wear suitable protective clothing, gloves and eye/face protection. After contact with skin, wash immediately with plenty of water.
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 (See also box 7)

EXPOSURE STANDARD Directive EC/98/24 (1 st IOELV Directive)	Not assigned.
ENGINEERING CONTROLS	Where prevention of exposure is not reasonably practicable, adequate control of exposure should be achieved by engineering controls rather than the provision of personal protective equipment and clothing. More specific details cannot be given without carrying out a full risk assessment for each and every use scenario. Suitable and approved personal protective equipment and clothing may include the following item(s):
EYE PROTECTION	Wear suitable eye protection such as goggles or a face shield.
HAND PROTECTION	Wear suitable hand protection such as chemical-resistant gloves.
SKIN PROTECTION	Wear suitable skin protection such as coveralls.
BREATHING PROTECTION	None necessary under normal working conditions.
ENVIRONMENTAL EXPOSURE CONTROLS	Product should be used in accordance with instructions given in Hygiene Technical Manual and any spillage should be dealt with as a priority in order that contamination of watercourses or ground is avoided.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOUR	A green liquid with a no discernible odour.		
pH	3.6 at 20 °C	SOLUBILITY IN WATER	Miscible.
SPECIFIC GRAVITY	1.0 at 20 °C	SOLUBILITY IN FAT	No data available.
FLASH POINT	Not determined.	EXPLOSIVE PROPERTIES	Not determined.
FLAMMABILITY	Non-flammable.	BOILING POINT/RANGE	Not determined.
AUTOFLAMMABILITY	Not determined.	FREEZING POINT/RANGE	-16 °C
VAPOUR DENSITY	Not determined.	EVAPORATION RATE	Not determined.
VAPOUR PRESSURE	Not determined.	PARTITION COEFFICIENT	Not determined.
VISCOSITY	Not determined.	OXIDISING PROPERTIES	None determined.
OTHER DATA	None.		

10 STABILITY AND REACTIVITY

CONDITIONS TO AVOID	Avoid extremes of temperature, e.g. below 0°C and above 40°C and protect from frost.
MATERIALS TO AVOID	None known.
HAZARDOUS BREAKDOWN PRODUCTS	Products of combustion are toxic.

11 TOXICOLOGICAL INFORMATION (see also box 2)

ACUTE TOXICITY	ORAL	For a similar product: LD ₅₀ (rat) : 2350 mg/kg.
	INHALATION	No data available.
	DERMAL	For a similar product: LD ₅₀ (rat) : > 2000 mg/kg.
CORROSIVITY/IRRITATION	SKIN	Corrosive to skin.
	EYES	Corrosive to eyes.
	RESPIRATORY TRACT	No data available.
SENSITISATION	SKIN	May cause sensitisation by skin contact.
	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		Product does not contain any components known to have a carcinogenic effect.
REPRODUCTIVE TOXICITY	FERTILITY	Product does not contain any components known to be toxic to the reproductive system, and having effects on fertility.
	DEVELOPMENT	Product does not contain any components known to be toxic to the reproductive system, and having effects on development.
OTHER INFORMATION		No specific antidote known.



12 ECOLOGICAL INFORMATION

GENERAL INFORMATION	The full ecotoxicological profile of this product has not been evaluated. Do not contaminate the environment.
ECOTOXICITY DATA	The following data refer to isothiazolones (100%): LC ₅₀ (96hr) Rainbow trout: 0.19mg/l LC ₅₀ (96hr) Bluegill sunfish: 0.28 mg/l EC ₅₀ (48hr) <i>Daphnia magna</i> : 0.16mg/l NOEL (21d) <i>Daphnia magna</i> : 0.035mg/l EC ₅₀ (72hr) <i>Selenastrum</i> species: 0.01mg/l
MOBILITY (OF APPROPRIATE CONSTITUENTS)	The components are fully soluble in water and would be expected to be mobile.
PERSISTENCE AND DEGRADABILITY (OF APPROPRIATE CONSTITUENTS)	No data available.
BIOACCUMULATIVE POTENTIAL (OF APPROPRIATE CONSTITUENTS)	No data available.
ENVIRONMENTAL CONSIDERATIONS	DO NOT contaminate watercourses or ground. This product is classified as R52/53, harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment. Thus, every care must be taken to avoid its release and the subsequent contamination of the aquatic environment.
OTHER ADVERSE EFFECTS	No data available.


13 DISPOSAL CONSIDERATIONS

DISPOSAL OF WASTE	Waste should be disposed of in accordance with local, State or National requirements.
DISPOSAL OF CONTAINERS:	Empty containers should be disposed of in accordance with local, State or National requirements.
CLASSIFICATION OF INGREDIENTS. COUNCIL DIRECTIVE 91/689/EC, COMMISSION DECISION 2000/532/EC (AMENDED) COMMISSION DECISION 2001/118/EC)	<u>Hazard Code</u> : H8 – Corrosive and H14 - Ecotoxic. <u>Components making the waste hazardous</u> <u>Concentrations (%)</u> : An aqueous solution containing isothiazolones >10 ≤25
NOTE FOR DISPOSAL	Disposal should be in accordance with local, State or National requirements. 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: 0845 9333111.

14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)

UN No.	UN3265	TREMCARD REFERENCE No.	CEFIC TEC (R)- 80G20	 
UK CDGCPL2 (UK ROAD)	CLASS 8	UK HAZCHEM EAC	2X	
UK CDGROAD TRANSPORT CATEGORY	2	RIS CODE	PDT401L	
PROPER SHIPPING NAME	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (contains chloromethylisothiazolone)			
LIMITED QUANTITY EXCEPTIONS	Maximum quantity per inner receptacle is 500 ml. Maximum quantity per outer package is 30 kg.			
SPECIAL REQUIREMENTS	Not required.		PACKING GROUP II	
ADR 2003 (INTERNATIONAL ROAD)	CLASS 8	ADR HIN	80	
PROPER SHIPPING NAME	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (contains chloromethylisothiazolone)			
LIMITED QUANTITY EXCEPTIONS	Maximum quantity per inner receptacle is 1 litres. Maximum quantity per outer package is 4 litres. Combination packs only.			
SPECIAL REQUIREMENTS	Not required.		PACKING GROUP II	
IMDG 2002 (SEA)	CLASS 8	IMDG EMS	8-15	
PROPER SHIPPING NAME	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (contains chloromethylisothiazolone)			
LIMITED QUANTITY EXCEPTIONS	Maximum quantity per inner receptacle is 500 ml. Maximum quantity per outer package is 30 kg. Combination packs only.			
SPECIAL REQUIREMENTS	Not required.		PACKING GROUP II	
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))

HAZARD SYMBOLS		
CLASSIFICATION	C - Corrosive	Dangerous for the Environment
RISK PHRASES	R34: Causes burns. R43: May cause sensitisation by skin contact. R52/53: Harmful 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. S28: After contact with skin, wash immediately with plenty of water. 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 label where possible). S60: This material and its container must be disposed of as hazardous waste.	
LEGISLATION	Labelling is according to UK regulations implementing the EC Directive 1999/45. Additional labelling requirements may be necessary in accordance with local legislation. Specific legislation used within this Safety Data Sheet is listed in the above boxes.	

16 OTHER INFORMATION and indication of revisions

<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.</p> <p>Before using any product, ensure that you read and understand its label.</p> <p>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>Changes have been made to the content of boxes 1, 2, 3, 4, 8, 9, 11, 12, 13, 14, 15, & 16 (as indicated by the thick lines on the left-hand side of the boxes) compared with issue 01.</p>

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The information contained in this safety data sheet is, to the best of our knowledge and belief, accurate and reliable at the time of publication. The information relates only to the specific material designated in this safety data sheet and may not be valid for such material if it is used in combination with any other material(s) or any other use than that specified herein. Rentokil Initial UK Ltd is not liable for the use of this product for any other purpose than that described in this safety data sheet. This does not affect your statutory rights. It is the user's responsibility to satisfy him/herself as to the suitability in completeness of such information for his/her own particular use.