

# Safety Data Sheet


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## 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT NAME	<b>DT 402</b>
DESCRIPTION	A clear, pale straw-coloured liquid with no significant odour. Used as a microbicide in disinfection treatments.
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.		
<b>X<sub>i</sub> Irritant</b>	R36: Irritating to eyes.	
<b>IRRITANT</b>		
ADVERSE PHYSICOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL EFFECTS (See also box 11):		
No adverse physicochemical effects expected from use of this product.		
This product will cause irritation on contact with eyes. May cause irritation to the respiratory system and skin, especially on prolonged contact.		
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
>2.5 ≤10	Bronopol* EINECS : Not applicable CAS : Not applicable	X <sub>n</sub> –Harmful: R21/22: Harmful in contact with skin and if swallowed. R37/38: Irritating to respiratory system and skin. R41: Risk of serious damage to eyes. N - Dangerous for the Environment: R50: Very toxic to aquatic organisms.

**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 water-jet, dry powder, carbon dioxide or foam extinguishers.
SPECIAL FIRE-FIGHTING PROCEDURES	Wear suitable personal protective equipment, including breathing apparatus.
SPECIAL EXPOSURE HAZARDS	The following compounds can be released in case of fire: Nitrogen oxides, carbon monoxide, bromine compounds.

**6 ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS (See also box 8)	Wear suitable personal protective equipment. Keep unprotected persons away.
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	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
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 <sup>st</sup> 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.
HAND PROTECTION	Wear suitable hand protection such as gloves.
SKIN PROTECTION	None necessary under normal working conditions.
BREATHING PROTECTION	None necessary under normal working conditions.
ENVIRONMENTAL EXPOSURE CONTROLS	Product should be used in accordance with instructions given 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 clear, pale straw-coloured liquid with no significant odour.		
pH	pH 2.2 at 20 °C.	SOLUBILITY IN WATER	Fully miscible.
SPECIFIC GRAVITY	1.1 at 20 °C	SOLUBILITY IN FAT	Not determined.
FLASH POINT	> 102 °C	EXPLOSIVE PROPERTIES	None known.
FLAMMABILITY	Non-flammable.	BOILING POINT/RANGE	Not determined.
AUTOFLAMMABILITY	Product is not self-igniting.	MELTING POINT/RANGE	Not applicable.
VAPOUR DENSITY	Not determined.	EVAPORATION RATE	Not determined.
VAPOUR PRESSURE	Not determined.	PARTITION COEFFICIENT	Not determined.
VISCOSITY	Not determined.	OXIDISING PROPERTIES	None known.
OTHER DATA	None known.		

## 10 STABILITY AND REACTIVITY

CONDITIONS TO AVOID	Avoid extremes of temperature, e.g. below 0°C and above 40°C.
MATERIALS TO AVOID	None known.
HAZARDOUS BREAKDOWN PRODUCTS	The following compounds can be released in case of fire: Nitrogen oxides, carbon monoxide, bromine compounds.

## 11 TOXICOLOGICAL INFORMATION (see also box 2)

ACUTE TOXICITY	ORAL	For Bronopol : LD <sub>50</sub> (rat) : 254 mg/kg
	INHALATION	No data available.
	DERMAL	For Bronopol : LD <sub>50</sub> (rat) : 1600 mg/kg
CORROSIVITY/IRRITATION	SKIN	May cause irritation, especially on prolonged contact.
	EYES	Product is irritating to eyes.
	RESPIRATORY TRACT	May cause irritation to the respiratory system.
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		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	Bronopol: EC <sub>50</sub> 50 mg/l (Bacteria) EC <sub>50</sub> /21d 6.9 mg/l (Daphnia) EC <sub>50</sub> /48h 1.4 mg/l (Daphnia) EC <sub>50</sub> /72h 0.4-2.8 mg/l (Algae) LC <sub>50</sub> /96h 35.7 mg/l (Bluegill sunfish) 41.2 mg/l ( <i>Oncorhynchus mykiss</i> )
MOBILITY (OF APPROPRIATE CONSTITUENTS)	No data available.
PERSISTENCE AND DEGRADABILITY (OF APPROPRIATE CONSTITUENTS)	Bronopol: Biodegradable up to the MIC limit.
BIOACCUMULATIVE POTENTIAL (OF APPROPRIATE CONSTITUENTS)	Bronopol: Low potential to bioaccumulate. Log P <sub>ow</sub> 0.18.
ENVIRONMENTAL CONSIDERATIONS	DO NOT contaminate watercourses or ground. This product does not contain any substances that are classified as dangerous to the environment. Thus, when supplied, used and disposed of as directed this product is not expected to present a danger to the environment.
OTHER ADVERSE EFFECTS	None.


## 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)	Hazard Code: Not classified.
	Components making the waste hazardous      Concentrations (%): None.      N/A
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.	<b>Not Classified.</b>		TREMCARD REFERENCE NO.	Not required.	LABELS	
UK CDGCP2 (UK ROAD)	CLASS	N/A	UK HAZCHEM EAC	Not required.	Not required.	
UK CDGROAD TRANSPORT CATEGORY	Not required.		RIS CODE	PDT402		
PROPER SHIPPING NAME	Not required.					
LIMITED QUANTITY EXCEPTIONS	Not required.					
SPECIAL REQUIREMENTS	Not required.			PACKING GROUP		Not required.
ADR 2003 (INTERNATIONAL ROAD)	CLASS	N/A	ADR HIN	Not required.		
PROPER SHIPPING NAME	Not required.					
LIMITED QUANTITY EXCEPTIONS	Not required.					
SPECIAL REQUIREMENTS	Not required.			PACKING GROUP		Not required.
IMDG 2002 (SEA)	CLASS	N/A	IMDG EMS	Not required.		
PROPER SHIPPING NAME	Not required.					
LIMITED QUANTITY EXCEPTIONS	Not required.					
SPECIAL REQUIREMENTS	Not required.			PACKING GROUP		Not required.
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	
INDICATION OF DANGER	<b>X<sub>i</sub> - Irritant</b>
RISK PHRASES	R36: Irritating to eyes.
SAFETY PHRASES	S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S35: This material and its container must be disposed of in a safe way.
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**

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.

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

Outside the UK, the registration of this product may be necessary before use and any additional local requirements must be observed at all times.

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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.