



**HARMFUL**

MSDS Ref:  
TR 212

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## 1. PRODUCT NAME:

**TRISOL 23**

**HSE No. 6274**

## 2. HAZARD IDENTIFICATION



**HARMFUL**

Harmful if swallowed  
Risk of serious damage to eyes.

## 3. COMPOSITION

HAZARDOUS INGREDIENT	CAS No.	EC No.	Weight %	Symbols	Risk Phrases
3-Iodo-2-propynyl-butyl carbamate	55406-53-6	259-627-5	5	Xn, N	R20/22,41,50
Fatty Alcohol ethoxylate			22	Xn	R22, 41

## 4. FIRST AID

CONTACT WITH SKIN:	Wash with plenty of soap and water for at least 5 minutes. If irritation or redness develop, seek medical attention.
CONTACT WITH EYES:	Wash out with water for several minutes. Seek medical advice.
INGESTION:	Rinse the mouth (do not swallow), and give copious fluids to drink, preferably milk. Seek medical advice. DO NOT INDUCE VOMITING.
INHALATION:	May cause respiratory irritation. Remove to fresh air, keep warm and at rest.
OTHER INFORMATION:	Information for doctor: May cause severe eye irritation and possible corneal injury unless washed from eyes promptly.

## 5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	As appropriate to surrounding fire.
SPECIAL PROTECTIVE EQUIPMENT:	Full protective clothing. May produce toxic and irritant iodine vapour.

## 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Wear suitable protective clothing including eye/face protection and PVC or synthetic rubber gloves, protective footwear and overalls.
ENVIRONMENTAL PRECAUTIONS:	Do not allow to enter public sewers and watercourses. If this cannot be avoided, inform the appropriate authority.
CLEAN-UP PROCEDURES	Absorb in dry sand or earth or similar absorbent and shovel into a suitable closed container for disposal according to item 13.

## 7. HANDLING AND STORAGE

### HANDLING PRECAUTIONS

Avoid contact with eyes or skin. Do not breathe spray.  
Wear suitable protective clothing according to item 8.

### STORAGE INFORMATION

Protect from frost. Keep containers tightly closed in a cool place. Do not mix or store in galvanised or light metal containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



Wear goggles or face shield, PVC or synthetic rubber gloves, protective footwear, and overalls.  
If spraying wear suitable respiratory protection, either an air-fed mask or cartridge type respirator fitted with a suitable cartridge. It is advisable to wear a suitable head covering and to apply a barrier cream (water-resistant type).  
Wash before meals; shower or bathe after work. Do not smoke whilst handling the product.  
Do not wear contaminated clothing.

### EXPOSURE LIMITS

None assigned in EH40

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Liquid
Odour	Very slight odour
pH	Neutral
Boiling Point	>100°C
Melting Point	Below 0°C
Flash Point	> 93°C
Autoignition temperature	Not Combustible
Explosive properties	Not explosive

Oxidising Properties	None
Vapour Pressure	No data
Relative density	1.02 – 1.04 (15°C)
Bulk density	Not Relevant
Viscosity	Similar to water
Solubility	Miscible with water
Partition Coefficient	No data
Other data	

## 10. STABILITY / REACTIVITY

### STABILITY:

Stable.

### CONDITIONS TO AVOID:

No special requirements.

### MATERIALS TO AVOID:

Strong acids and bases.

## 11. TOXICOLOGICAL INFORMATION

3-Iodo-2-propynyl-butyl carbamate (I.P.B.C.) is moderately toxic: LD<sub>50</sub> 1470mg/kg (rat, acute, oral).  
The calculated toxicity of TRISOL 23 is LD<sub>50</sub> > 10,000mg/kg, based on dilution factors.

It causes severe eye irritation and is a skin irritant.

Ingestion may cause nausea, gastrointestinal irritation and vomiting.  
Long-term exposure effects are unknown.



## 12. ECOLOGICAL INFORMATION

MOBILITY:	No specific information.
DEGRADABILITY: I.P.B.C. is not biodegradable	COD = 1.148e mg/kg (day(s)) for I.P.B.C.
ACCUMULATION:	Bioconcentration factor for Carp: 3.3-4.5
ECOTOXICITY:	Acutely toxic to aquatic organisms. LC <sub>50</sub> (96hr) Blue gill 0.23mg a.i./L. LC <sub>50</sub> (48hr) <i>Daphnia magna</i> 0.696mg/L

## 13. DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT:	Chemical residues are normally regarded as Special Waste. Dispose of in accordance with local and national regulations.
DISPOSAL OF PACKAGING:	Uncleaned packaging should be treated as for the product. If thoroughly rinsed, it may be treated as general waste for incineration or landfill, according to regulations.

## 14. TRANSPORT INFORMATION

UN NO.	3077
PROPER SHIPPING NAME	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, NOS. Contains Iodocarb (5%)
ADR/RID	Class 9. Item 12(c)
IMCO	Class 9. IMDG Code page 9029
ICAO/IATO	Class 9.
PACKING GROUP	III
LABEL	Harmful, dangerous to the environment (as 100% I.P.B.C)

## 15. REGULATORY INFORMATION

CLASSIFICATION	Harmful if swallowed Risk of serious damage to eyes
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### LABEL INFORMATION:

FOR USE ONLY AS A SURFACE BIOCIDES  
FOR USE ONLY BY PROFESSIONAL OPERATORS

### SAFETY PHRASES

IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL seek medical advice immediately. (Show the label where possible).

To avoid risks to man and the environment, comply with the instructions for use.

WASH HANDS AND EXPOSED SKIN before meals and after use.

WASH ANY CONTAMINATION from skin or eyes immediately.

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

Keep only in the original container.

Keep container tightly closed.

KEEP IN A SAFE PLACE.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

Keep out of the reach of children.



## PRECAUTIONS:

The (COSHH) Control of Substances Hazardous to Health Regulations 1994 may apply to the use of this product at work.

### FOR USE ONLY BY PROFESSIONAL OPERATORS

Engineering control of operator exposure must be used where reasonably practicable in addition to the following items of personal protective equipment.

Wear suitable protective clothing, gloves and eye/face protection.

AVOID EXCESSIVE CONTAMINATION OF COVERALLS AND LAUNDRY REGULARLY.

Do not breathe spray. Otherwise wear respiratory protective equipment and eye protection (see HSE Guidance Booklet HS(G) 53: "The Selection, Use and Maintenance of Respiratory Protective Equipment – A Practical Guide").

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

UNPROTECTED PERSONS AND ANIMALS SHOULD BE KEPT AWAY FROM TREATED AREAS FOR 48 HOURS OR UNTIL SURFACES ARE DRY.

DO NOT CONTAMINATE FOODSTUFFS, EATING UTENSILS OR FOOD CONTACT SURFACES.

COVER WATER STORAGE TANKS before application.

THIS MATERIAL AND ITS CONTAINER must be disposed of in a safe way.

AVOID ALL CONTACT WITH PLANT LIFE.

Do not contaminate ground, waterbodies or watercourses with chemicals or used container.

REMOVE OR COVER ALL FISH TANKS AND BOWLS before application.

EXTREMELY DANGEROUS TO FISH AND OTHER AQUATIC LIFE.

ALL BATS ARE PROTECTED UNDER THE WILDLIFE AND COUNTRYSIDE ACT 1981. BEFORE TREATING ANY STRUCTURE USED BY BATS, CONSULT ENGLISH NATURE, SCOTTISH NATURAL HERITAGE OR THE COUNTRYSIDE COUNCIL FOR WALES.

DO NOT USE ON BEEHIVES OR BEEKEEPING EQUIPMENT.

In case of fire use foam/dry powder/CO<sub>2</sub>. DO NOT USE WATER.

READ ALL PRECAUTIONS BEFORE USE. HSE NO. 6274

Refer to other relevant legislation such as the Health and Safety at Work etc Act (HSWA), THE Control of Substances Hazardous to Health Regulations (COSHH), the Environment Protection Act and the Control of Pollution Act.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risk as required by health and safety legislation.

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## 16. OTHER INFORMATION

The information contained in this data sheet is to the best of our knowledge accurate at the date of publication, but we cannot accept responsibility that it is sufficient or correct in all cases.

The data contained herein does not constitute a specification. Such information is available from the technical data sheet for the product.

*Abbreviations: OES – occupational exposure standard. STEL – short-term exposure limit. LTEL – long-term exposure limit. TWA – time weighted (8 hour) average. LEL – lower explosive limit. UEL – upper explosive limit.*