

**HARMFUL****Triton Chemical Manufacturing Co. Ltd**

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25/02/04**1. PRODUCT NAME:****TRISOL 23****HSE NO. 6274****2. 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

3. HAZARD IDENTIFICATIONHarmful if swallowed
Risk of serious damage to eyes**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. 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.

(Cont'd)

6. ACCIDENTAL RELEASE MEASURES (Cont'd)

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	Oxidising properties	None
Odour	Very slight odour	Vapour pressure	No data
pH	Neutral	Relative density	1.02 – 1.04 (15°C)
Boiling point	> 100° C	Bulk density	Not relevant
Melting point	Below 0° C	Viscosity	Similar to water
Flash point	> 93° C	Solubility	Miscible with water
Flammability/autoflammability:	Not combustible	Partition coefficient	No data
Explosive properties	Not explosive	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: LD₅₀ 1470mg/kg (rat, acute, oral).
The calculated toxicity of TRISOL 23 is LD₅₀ > 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	COD = 1.148e mg/kg (day(s)) for I.P.B.C. I.P.B.C. is not biodegradable
ACCUMULATION	Bioconcentration factor for Carp: 3.3-4.5
ECOTOXICITY	Acutely toxic to aquatic organisms. LC ₅₀ (96hr) Blue gill 0.23mg a.i./L. LC ₅₀ (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

INCASE 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.

(Cont'd)

15. REGULATORY INFORMATION (Cont'd)

SAFETY PHRASES (Cont'd)

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 LAUNDER REGULARLY.

Do not breathe spray. Otherwise wear respiratory protective equipment and eye protection (see HSE Guidance Booklet HS(G) 53: "The Selection – 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.

COVER FOOD, FOOD PREPARING EQUIPMENT AND EATING UTENSILS before application.

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

DO NOT APPLY TO SURFACES on which food or feed is stored, prepared or eaten.

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

COVER WATER STORAGE TANKS before application.

Do not empty into drains.

DO NOT USE NEAR DRAINS, PREVENT ANY SURFACE RUN-OFF FROM ENTERING DRAINS.

DANGEROUS TO FISH AND OTHER AQUATIC LIFE.

This product contains substances which are known to be hazardous to the environment.

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

REMOVE OR COVER ALL FISH TANKS AND BOWLS before application.

AVOID ALL CONTACT WITH PLANT LIFE.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

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.

16. OTHER INFORMATION

This product is for use only by professional operators as a masonry fungicide.

This product is approved under the control of pesticides regulations 1986 (as amended) for use as directed. HS No. 6274

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.