

1 - Product and Company Information

ProductName	3-BROMOPHENYLZINC IODIDE, 0.5M SOLUTION IN TETRAHYDROFURAN (NO BULK SALES ALLOWED)
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2 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Highly flammable. Reacts violently with water. May form explosive peroxides. Harmful if swallowed. Irritating to eyes, respiratory system and skin. Limited evidence of a carcinogenic effect.

3 - Composition/Information on Ingredients

3-BROMOPHENYLZINC IODIDE, 0.5M SOLUTION IN TETRAHYDROFURAN		None	None	None
Ingredient Name	Percent	CAS #	EC no	Annex I
TETRAHYDROFURAN, WITH 82.59 BHT INHIBITOR Symbols: F-Xi R-Phrases: 11-19-36/37 Highly flammable. May form explosive peroxides. Irritating to eyes and respiratory system.	109-99-9	203-726-8		None
3-BROMOPHENYLZINC IODIDE	17.41	186000-44-2	None	None
4 - First Aid Measures				
AFTER INHALATION If inhaled, remove to fresh air. If not breathing give				

4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water.

AFTER EYE CONTACT

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.

Unsuitable: Do not use water.

SPECIAL RISKS

Specific Hazard(s): Water reactive material. Flammable liquid. Vapor may travel considerable distance to source of ignition and flash back. Emits toxic fumes under fire conditions.

Explosion Hazards: Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SPECIFIC METHOD(S) OF FIRE FIGHTING

Use water spray to cool fire-exposed containers.

6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area. Shut off all sources of ignition.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors.

Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep container closed. Keep away from heat, sparks, and open flame. Handle and store under nitrogen. Unsuitable: In the absence of inhibitors, tetrahydrofuran tends to absorb and react with oxygen from the air to form explosive peroxides which may detonate when they become concentrated by evaporation or distillation, are combined with other compounds resulting in an explosive mixture or are disturbed by heat, shock, or friction.

Incompatible Materials: Do not allow contact with water

Store at 2-8°C

SPECIAL REQUIREMENTS: Handle and store under inert gas. May develop pressure. Open carefully. Do not distill to dryness.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Use nonsparking tools. Use only in a chemical fume hood.

GENERAL HYGIENE MEASURES

All operations should be carried out in a glove bag or similar enclosure to avoid accidental contact. Wash thoroughly after handling. Discard contaminated clothing and shoes.

EXPOSURE LIMITS - EUROPEAN UNION

Source Type	Value
OEL OEL	150 mg/m3 50 ppm

Remarks: Skin

EXPOSURE LIMITS - DENMARK

Source Type	Type	Value
OEL	TWA	148 mg/m3 50 ppm

Remarks: H

EXPOSURE LIMITS - GERMANY

Source Type	Type	Value
TRGS 900	OEL	150 mg/m3 50 ppm

Remarks: =2=

Remarks: Y,TRGS 901-92

EXPOSURE LIMITS - SWITZERLAND

Source Type	Value
OEL OEL	150 mg/m3 50 ppm

Remarks: C M

EXPOSURE LIMITS - UNITED KINGDOM

Source Type	Value
OEL OEL	300 mg/m3 100 ppm
OEL	599 mg/m3 200 ppm

Remarks: Skin

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

Special Protective Measures: Faceshield (8-inch minimum).

9 - Physical and Chemical Properties

Appearance	Physical State: Liquid	
Property	Value	At Temperature or Pressure
pH	N/A	
BP/BP Range	N/A	
MP/MP Range	N/A	
Flash Point	- 17.220 °C	Method: closed cup
Flammability	N/A	
Autoignition Temp	N/A	
Oxidizing Properties	N/A	
Explosive Properties	N/A	
Explosion Limits	N/A	
Vapor Pressure	N/A	
SG/Density	1.023 g/cm3	
Partition Coefficient	N/A	
Viscosity	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
Evaporation Rate	N/A	
Bulk Density	N/A	
Decomposition Temp.	N/A	
Solvent Content	N/A	
Water Content	N/A	
Surface Tension	N/A	
Conductivity	N/A	
Miscellaneous Data	N/A	
Solubility	N/A	

10 - Stability and Reactivity

STABILITY

Stable: Unstable.

Conditions of Instability: Readily hydrolyzed.

Conditions to Avoid: Do not allow water to enter container. Air sensitive.

Materials to Avoid: Reacts violently with water., Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Hydrogen bromide gas, Hydrogen iodide.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

11 - Toxicological Information

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Exposure to high airborne concentrations can cause anesthetic effects. Coughing, chest pains, difficulty in breathing.

Exposure can cause: Can cause CNS depression.

ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes eye irritation.

Inhalation: May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.

Ingestion: Harmful if swallowed.

TARGET ORGAN INFORMATION

Kidneys. Liver. Central nervous system.

CHRONIC EXPOSURE - CARCINOGEN

Result: This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH,

NTP, or EPA classification.

12 - Ecological Information

ECOTOXICOLOGICAL EFFECTS

Test Type: LC50 Fish

Species: Pimephales promelas (Fathead minnow)

Time: 96 h

Value: 2,160 mg/l

Test Type: EC50 Daphnia

Species: Daphnia magna

Time: 24 h

Value: 5,930 mg/l

13 - Disposal Considerations

SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped

afterburner and scrubber but exert extra care in igniting material is highly flammable. Observe all federal, state,

local environmental regulations.

dispose with an as this and

14 - Transport Information

RID/ADR

UN#: 2056

Class: 3

PG: II

Proper Shipping Name: Tetrahydrofuran solution

IMDG

UN#: 2056

Class: 3

PG: II

Proper Shipping Name: Tetrahydrofuran solution

Marine Pollutant: No

Severe Marine Pollutant: No

IATA

UN#: 2056

Class: 3

PG: II

Proper Shipping Name: Tetrahydrofuran solution

Inhalation Packing Group I: No

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: F-Xn

Highly Flammable.

R-PHRASES: 11-14-19-22-36/37/38-40

Highly flammable. Reacts violently with water. May form explosive peroxides. Harmful if swallowed. Irritating to eyes,

respiratory system and skin. Limited evidence of a carcinogenic effect.

S-PHRASES: 16-26-33-36

Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Take precautionary measures against static discharges. Wear suitable protective clothing.

Caution: Substance not yet fully tested (EU).

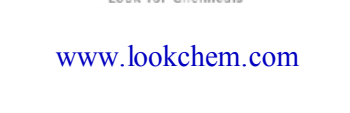
COUNTRY SPECIFIC INFORMATION

Germany

WGK: 1

Self-Classification

16 - Other Information



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WARRANTY:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.