



# Safety Data Sheet - Version 5.0

Preparation Date 12/4/2012

Latest Revision Date (If Revised) 12/3/2015

SDS Expiry Date 12/1/2018

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

**Chemical Name** 3-Iodo-2-propynyl N-Butylcarbamate-d9

**Catalogue #** I718952

### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

**Product Uses** To be used only for scientific research and development. Not for use in humans or animals.

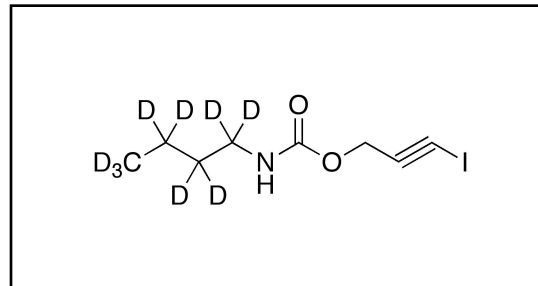
### 1.3 Details of the Supplier of the Safety Data Sheet

**Company** Toronto Research Chemicals  
2 Brisbane Road  
Toronto, ON M3J 2J8  
CANADA

**Telephone** +14166659696

**FAX** +14166654439

**Email** orders@trc-canada.com



### 1.4 Emergency Telephone Number

**Emergency#** +14166659696 between 0800-1700 (GMT-5)

## 2. HAZARDS IDENTIFICATION

### WHMIS Classification (Canada)

D2A Very Toxic Material Causing Other Toxic Effects  
Chronic Toxicity

D2B Toxic Material Causing Other Toxic Effects  
Severe Eye Irritant

### WHMIS Symbols (Canada)



### 2.1/2.2 Classification of the Substance or Mixture and Label Elements

#### GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Acute Toxicity, Oral (Category 4)

Serious Eye Damage (Category 1)

Sensitisation, Skin (Category 1)

Specific Target Organ Toxicity, Repeated Exposure (Category 1)

Hazardous to the Aquatic Environment, Acute Hazard (Category 1)

Hazardous to the Aquatic Environment, Long-Term Hazard (Category 1)

#### EU Classification (According to EU Regulation 67/548/EEC)

Harmful if swallowed. May cause sensitization by skin contact. Risk of serious damage to the eyes. Danger of serious damage to health by prolonged exposure Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### EU Risk and Safety Statements (According to EU Regulation 67/548/EEC)

Hazard Statements	Hazard Codes
Harmful	Xn
Corrosive	C
Environmental Hazard	N



### Risk Codes and Phrases

R22	Harmful if swallowed.
R43	May cause sensitization by skin contact.
R41	Risk of serious damage to the eyes.
R48	Danger of serious damage to health by prolonged exposure
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Safety Precaution Codes and Phrases

S22	Do not breathe dust.
S61	Avoid release to the environment. Refer to special instructions.
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).

### GHS Hazards Identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Signal Word Danger



### GHS Hazard Statements

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

### GHS Precautionary Statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301/P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P302/P352	IF ON SKIN: Wash with plenty of soap and water
P305/P351/P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3 Unclassified Hazards/Hazards Not Otherwise Classified

No data available.

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

### 3.1 Substances

Molecular Formula: C<sub>8</sub>H<sub>3</sub>D<sub>9</sub>INO<sub>2</sub>

Molecular Weight: 290.15

CAS Registry #: 1246815-08-6

EC#:

### Synonyms

N-(Butylcarbamic Acid-d9) 3-Iodo-2-propyn-1-yl Ester; 3-Iodopropargyl n-(Butylcarbamate-d9); Acticide IPW 50-d9; Biodocarb-d9; Coatcide 123-d9; Dekaben LMB-d9; Ecobois-d9;

### 3.2 Mixtures

Not a mixture.

## **4. FIRST AID MEASURES**

### 4.1 Description of First Aid Measures

#### General Advice

If medical attention is required, show this safety data sheet to the doctor.

#### **If Inhaled**

If inhaled, move person to fresh air. If not breathing, give artificial respiration and consult a physician.

#### **In Case of Skin Contact**

Wash affected area with soap and water. Consult a physician if any exposure symptoms are observed.

#### **In Case of Eye Contact**

Immediately rinse eyes with plenty of water for at least 15 minutes. Consult a physician.

#### **If Swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting unless advised to do so by a physician or Poison Control Center. Seek medical attention.

#### **4.2 Most Important Symptoms and Effects, Both Acute and Delayed**

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or section 11.

#### **4.3 Indication of any Immediate Medical Attention and Special Treatment Needed**

No data available.

### **5. FIREFIGHTING MEASURES**

#### **5.1 Extinguishing Media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### **5.2 Special Hazards Arising from the Substance or Mixture**

Carbon oxides, Nitrogen oxides, Hydrogen iodide

#### **5.3 Advice for Firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

#### **5.4 Further Information**

No data available.

### **6. ACCIDENTAL RELEASE MEASURES**

#### **Personal precautions**

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### **Method and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### **7. HANDLING AND STORAGE**

#### **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

#### **Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.  
Keep in a dry place.

Storage conditions: Amber Vial, -20°C Freezer

#### **7.3 Specific End Uses**

For scientific research and development only. Not for use in humans or animals.

### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **8.1 Control Parameters**

Contains no components with established occupation exposure limits.

#### **8.2 Exposure Controls**

**Appropriate Engineering Controls**

A laboratory fumehood or other appropriate form of local exhaust ventilation should be used to avoid exposure.

### Personal Protective Equipment

All recommendations below are advisory in nature and a risk assessment should be performed by the employer/end user prior to use of this product. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

### Eye/Face Protection

Safety goggles or face shield. All equipment should have been tested and approved under appropriate standards, such as NIOSH (US), CSA (Canada), or EN 166 (EU).

### Skin Protection

Gloves should be used when handling this material. Gloves are to be inspected prior to use. Contaminated gloves are to be removed using proper glove removal technique so that the outer surface of the glove does not contact bare skin. Dispose of contaminated gloves after use in compliance with good laboratory practices and local requirements.

Gloves used for incidental exposures (splash protection) should be designated as "chemical resistant" by EU standard EN 374 with the resistance codes corresponding to the anticipated use of the material. Unrated gloves are not recommended.

Suggested gloves: AnsellPro Sol-Vex nitrile gloves style 37-175, 15 mil thickness.  
Penetration time has not been determined.

Gloves used for prolonged direct exposure (immersion) should be designated "chemical resistant" as per EN 734 with the resistance codes corresponding to the anticipated use of the material.

Suggested gloves: AnsellPro Viton/Butyl gloves style 38-612, 4/8 mil thickness.  
Penetration time has not been determined.

These recommendations may not apply if the material is mixed with any other chemical, or dissolved into a solution. A risk assessment must be performed to ensure the gloves will still offer acceptable protection.

### Body Protection

Fire resistant (Nomex) lab coat or coveralls.

### Respiratory Protection

Recommended respirators are NIOSH-approved N100 or CEN-approved FFP3 particulate respirators. These are to be only used as a backup to local exhaust ventilation or other engineering controls. If the respirator is the only means of protection, a full-face supplied air respirator must be used.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical and Chemical Properties

**A) Appearance**

Off-White Solid

**C) Odour Threshold**

No data available

**E) Melting Point/Freezing Point**

65-67°C

**G) Flash point**

No data available

**I) Flammability (Solid/Gas)**

No data available

**K) Vapour Pressure**

No data available

**M) Relative Density**

No data available

**O) Partition Coefficient: n-octanol/water**

No data available

**Q) Decomposition Temperature**

No data available

**S) Explosive Properties**

No data available

**B) Odour**

No data available

**D) pH**

No data available

**F) Initial Boiling Point/Boiling Range**

No data available

**H) Evaporation Rate**

No data available

**J) Upper/Lower Flammability/Explosive Limits**

No data available

**L) Vapour Density**

No data available

**N) Solubility**

DMSO (Slightly), Methanol (Slightly)

**P) Auto-Ignition Temperature**

No data available

**R) Viscosity**

No data available

**T) Oxidizing Properties**

No data available

## **9.2 Other Information**

no data available

# **10. STABILITY AND REACTIVITY**

## **10.1 Reactivity**

No data available.

## **10.2 Chemical Stability**

Stable under recommended storage conditions.

## **10.3 Possibility of Hazardous Reactions**

No data available.

## **10.4 Conditions to Avoid**

No data available.

## **10.5 Incompatible Materials**

Strong oxidizing agents.

## **10.6 Hazardous Decomposition Products**

In the event of fire: See section 5. **Other decomposition products:** No data available.

# **11. TOXICOLOGICAL INFORMATION**

## **11.1 Information on Toxicological Effects**

### **A) Acute Toxicity**

**Oral LD50:** Rat - 1,470 mg/kg

**Inhalation LC50:** No data available.

**Dermal LD50:** No data available.

### **B) Skin Corrosion/Irritation**

No data available

### **C) Serious Eye Damage/Irritation**

No data available

### **D) Respiratory or Skin Sensitization**

May cause an allergic skin reaction.

### **E) Germ Cell Mutagenicity**

No data available

### **F) Carcinogenicity**

No data available

### **G) Reproductive Toxicity/Teratogenicity**

No data available

### **H) Single Target Organ Toxicity - Single Exposure**

No data available

### **I) Single Target Organ Toxicity - Repeated Exposure**

No data available

### **J) Aspiration Hazard**

No data available

### **K) Potential Health Effects and Routes of Exposure**

#### **Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation.

#### **Ingestion**

Harmful if swallowed.

#### **Skin**

May be harmful if absorbed through skin. May cause skin irritation.

#### **Eyes**

Causes severe eye burns and possible permanent eye damage.

### **L) Signs and Symptoms of Exposure**

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or section 11.

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

### **M) Additional Information**

**12. ECOLOGICAL INFORMATION****12.1 Toxicity****Toxicity to fish:**

LC50 - Oncorhynchus mykiss (rainbow trout) - 0.067 mg/l - 96 h  
 mortality NOEC - Oncorhynchus kisutch - < 0.07 mg/l - 96 h

**Toxicity to daphnia and other aquatic invertebrates:**

LC50 - Daphnia magna (Water flea) - 0.04 mg/l - 48 h

**12.2 Persistence and Degradability**

No data available.

**12.3 Bioaccumulative Potential**

No data available.

**12.4 Mobility in Soil**

No data available.

**12.5 Results of PBT and vPvB Assessment**

No data available.

**12.6 Other Adverse Effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
 Very toxic to aquatic life with long lasting effects.

**13. DISPOSAL CONSIDERATIONS****13.1 Waste Treatment Methods****A) Product**

Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding the disposal and destruction of this material are followed.

**B) Contaminated Packaging**

Dispose of as above.

**C) Other Considerations**

Product is not to be disposed of in sanitary sewers, storm sewers, or landfills.

**14. TRANSPORT INFORMATION****14.1 UN Number**

DOT (US): UN3077                      IATA: UN3077                      IMDG: UN3077                      ADR/RID: UN3077

**14.2 UN Proper Shipping Name**

DOT (US)/IATA:

Environmentally hazardous substance, solid, n.o.s. (3-Iodo-2-propynyl N-Butylcarbamate-d9)

IMDG/ARD/RID:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (3-Iodo-2-propynyl N-Butylcarbamate-d9)

**14.3 Transport Hazard Class(es)**

DOT (US): 9                      IATA: 9                      IMDG: 9                      ADR/RID: 9

**14.4 Packing Group**

DOT (US): III                      IATA: III                      IMDG: III                      ADR/RID: III

**14.5 Environmental Hazards**

DOT (US): None                      IATA: None                      IMDG: Marine pollutant                      ADR/RID: None

**14.6 Special Precautions for User**

None

**15. REGULATORY INFORMATION**

This safety data sheet complies with the requirements of WHMIS (Canada), OSHA 1910.1200 (US), and EU Regulation EC No. 1907/2006 (European Union).

**15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture****A) Canada**

**DSL/NDSL Status:** This product is not listed on the Canadian DSL/NDSL.

**B) United States**

**TSCA Status:** This product is not listed on the US EPA TSCA.

**C) European Union**

**ECHA Status:** This product is not registered with the EU ECHA.

**15.2 Chemical Safety Assessment**

No data available

## **16. OTHER INFORMATION**

### **16.1 Revision History**

Original Publication Date: 12/4/2012

### **16.2 List of Abbreviations**

LD50	Median lethal dose of a substance required to kill 50% of a test population.
LC50	Medial lethal concentration of a substance required to kill 50% of a test population.
LDLo	Lowest known lethal dose
TDLo	Lowest known toxic dose
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances

### **16.3 Further Information**

Copyright 2015. Toronto Research Chemicals Inc. Copies may be made for internal use only. The above information is believed to be correct to the best of our knowledge, but is to be only used as a guide. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Please take all due care when handling this product.