

#### Revision number: 2 Revision date: 11/10/2015

# 1. IDENTIFICATION

Product	name:
Product	code:

2-Butyl-3-[[2'-cyano-[1,1'-biphenyl]-4-yl]methyl]-1,3-diazaspiro[4,4]non-1-en-4-one B4143

Product use: Restrictions on use:

#### Company:

TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

# 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Acute Toxicity - Oral [Category 4] Acute Toxicity - Dermal [Category 4] Acute Toxicity - Inhalation [Category 4] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A]

Signal word:

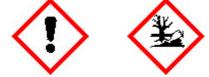
Warning!

Hazard Statement(s):

Causes serious eye irritation Causes skin irritation Harmful if swallowed Harmful in contact with skin Harmful if inhaled Very toxic to aquatic life Very toxic to aquatic life

Aquatic Hazard (Acute) [Category 1] Aquatic Hazard (Long-Term) [Category 1]

#### Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage]

[Disposal]

Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves and protective clothing. Avoid breathing dusts or mists. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye and face protection.

If swallowed: Immediately call a poison center or doctor. Rinse mouth. If on skin: Wash with plenty of water. Call a poison center or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. If skin irritation or rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

None

Dispose of contents and container in accordance with US EPA guidelines for the classification and determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

For laboratory research purposes. Not for drug or household use.

**TCI AMERICA** 

SAFETY DATA SHEET

## Emergency telephone number:

Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1- 503-286-7624

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I'-biphenyl]-4-yl]methyl]-1,3-diazaspiro[4,4]non-1-en-4-one iazaspiro[4,4]non-1-en-3-yl)methyl]-[1,1'-biphenyl]-2-carbonitrile al service. Move victim to fresh air. Give artificial respiration if victim is not breathing eathing is difficult. Keep victim warm and quiet. Treat symptomatically and at medical personnel are aware of the material(s) involved and take precautions to doctor if you feel unwell. Remove and wash contaminated clothing before re-use. ntaminated clothing and shoes. In case of contact with substance, immediately water for at least 20 minutes. Treat symptomatically and supportively. Ensure that aware of the material(s) involved and take precautions to protect themselves. ves with running water for at least 15 minutes, keeping eyelids open. Contact with burn eyes. Call emergency medical service. Move victim to fresh air. Check for and ses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of may be delayed. Ensure that medical personnel are aware of the material(s) autions to protect themselves. No not induce vomiting with out medical advice. Call a physician or Poison Control on tuse mouth-to-mouth method if victim ingested the substance; give artificial of a pocket mask equipped with a one-way valve or other proper respiratory n tight clothing such as a collar, tie, belt or waistband. If a person vomits place ther so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm
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hazardous to the person providing aid to give mouth-to-mouth respiration, because harmful. If breathing has stopped, perform artificial respiration. Use first aid the nature of the injury. Ensure that medical personnel are aware of the material(s) autions to protect themselves.
nd, earth, water spray or regular foam Consult with local fire authorities before ire fighting operations.
: Carbon oxides Nitrogen oxides
r

Wear positive pressure self-contained breathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.

# 6. ACCIDENTAL RELEASE MEASURES

6. ACCIDENTAL RELEASE MEAS	SURES
Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Personal protective equipment:	Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).
Emergency procedures:	Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

#### Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. Dike far ahead of spill; use dry sand to contain the flow of material. Ventilate the area.

#### Environmental precautions:

Keep away from living quarters. Environmental hazard. Do not let product enter drains. Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

Precautions for safe handling:	Avoid inhalation of vapor or mist. Do not ingest. Avoid contact with skin and eyes. Avoid contact with skin.
	Good general ventilation should be sufficient to control airborne levels. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition.
Conditions for safe storage:	Keep only in the original container in a cool well-ventilated place. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods.
Storage incompatibilities:	Store away from oxidizing agents

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

No data available

#### Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal p	rotective	equipment
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Respiratory protection:Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.Hand protection:Nitrile gloves.Eye protection:Safety glasses.Skin and body protection:Lab coat.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:

Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:

Partition coefficient: n-octanol/water (log Pow) Solid Crystal - Powder White - Very pale yellow No data available No data available

93°C (199°F) No data available No data available No data available No data available

No data available

pH: Vapor pressure: Vapor density: Dynamic Viscosity:

Evaporation rate: (Butyl Acetate = 1) No data available No data available No data available No data available

No data available

9. PHYSICAL AND CHEMIC Flash point:	No data available	Autoignition temp	erature: N	o data available
Flammability (solid, gas):	No data available	Flammability or ex		
lannability (cona, gao).		Lower:	No data available	2
		Upper:	No data available	9
Solubility(ies): Soluble: Methanol				
10. STABILITY AND REACT	ΓΙVΙΤΥ			
Reactivity: Chemical Stability: Possibility of Hazardous React Conditions to avoid: Incompatible materials: Hazardous Decomposition Pro	ions: No hazardous react Avoid excessive hea Oxidizing agents	mended storage conditions. (S ivity has been reported. at and light.	See Section 7)	
11. TOXICOLOGICAL INFO	RMATION			
<b>Acute Toxicity:</b> No data available				
<b>Skin corrosion/irritation:</b> No data available				
Serious eye damage/irritation: No data available				
<b>Respiratory or skin sensitizatio</b> No data available	on:			
<b>Germ cell mutagenicity:</b> No data available				
Carcinogenicity:				
No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
<b>Reproductive toxicity:</b> No data available				
blistering. Skin contact may resul Potential Health Effects:	: pus illness or death. Skin contact It in redness, pain or dry skin. Eye			g, scaling, reddening, or occasionall
Skin and eye contact may result <b>Farget organ(s):</b>	in irritation. No data available			

Ecotoxicity Fish: Crustacea: Algae:	No data available No data available No data available
Persistence and degradability: Bioaccumulative potential (BCF): Mobillity in soil: Partition coefficient: n-octanol/water (log Pow) Soil adsorption (Koc): Henry's Law: constant (PaM <sup>3</sup> /mol)	No data available No data available No data available No data available No data available No data available

# 12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS	
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.
Disposal of container:	Dispose of as unused product. Do not re-use empty containers.
Other considerations:	Observe all federal, state and local regulations when disposing of the substance.
14. TRANSPORT INFORMATION	

DOT (US) UN number: UN3077	<b>Proper Shipping Name:</b> Environmentally hazardous substance, solid, n.o.s.	Class or Division: 9 Miscellaneous hazardous material	Packing Group: III
IATA UN number: UN3077	<b>Proper Shipping Name:</b> Environmentally hazardous substance, solid, n.o.s.	Class or Division: 9 Miscellaneous hazardous material	Packing Group:
IMDG UN number: UN3077	<b>Proper Shipping Name:</b> Environmentally hazardous substance, solid, n.o.s.	Class or Division: 9 Miscellaneous hazardous material	Packing Group:

#### EmS number:

F-A, S-F

# 15. REGULATORY INFORMATION

# Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

**HMIS Classification:** 

0 0

0

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

### **US Federal Regulations**

CERCLA Hazardous substance and	d Reportable Quantity:
SARA 313:	Not Listed
SARA 302:	Not Listed

#### **State Regulations**

# State Right-to-Know

Massachusetts	Not Listed
New Jersey	Not Listed
Pennsylvania	Not Listed
California Proposition 65:	Not Listed

## Other Information

#### **NFPA Rating:**

Health:	0	Health:
Flammability:	0	Flammability:
Instability:	0	Physical:

#### International Inventories

WHMIS	hazard	class:	
EC-No:			

No data available. 423-500-4

# 16. OTHER INFORMATION

#### Revision date: 11/10/2015 Revision number: 2

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.