# **SAFETY DATA SHEET**



### Section 1. Identification

Product identifier Material Number EPA Registration Number:	:	Biochek 8064 57068750 39967-131
Identified uses	:	Biocide
Supplier/Manufacturer	:	LANXESS Corporation Product Safety & Regulatory Affairs 111 RIDC Park West Drive Pittsburgh, PA 15275-1112 USA
		For information: US/Canada (800) LANXESS International +1 412 809 1000
In case of emergency	:	Chemtrec (800) 424-9300 International (703) 527-3887 Lanxess Emergency Phone (800) 410-3063.

# Section 2. Hazards identification

HAZCOM Standard Status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Physical state	: Liquid.
Color	: White to yellowish. [Light]
Classification of the substance or mixture	: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION Category 1
Hazard pictograms	
Signal word	: Danger
Hazard statements	: Causes serious eye damage. May cause an allergic skin reaction.
Hazard Not Otherwise Classified (HNOC) <u>Precautionary statements</u>	: None known.
Prevention	: Wear protective gloves and eye/face protection. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	: IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Storage	: Not applicable.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Supplemental label elements	: Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink.

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
Carbamic acid, butyl-, 3-iodo-2-propynyl ester		55406-53-6

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of first aid measures

Eye contact	:	Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. In case of contact with eyes, flush eyes with plenty of water for at least 30 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	:	Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. If not breathing, if breathing is irregulor or respiratory arrest occurs, provide artifical respiration, or oxygen by a trained professional, using a pocket type respirator.
Skin contact	:	In case of contact, flush skin with plenty of water for at least 30 minutes. Get medical attention immediately. Immediately remove contaminated clothing and shoes. Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Get medical attention immediately. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Potential acute health effects	5	
Eye contact	:	Causes serious eye damage.
Inhalation	:	May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
Skin contact	:	May cause an allergic skin reaction.
Ingestion	÷	May cause burns to mouth, throat and stomach.
Over-exposure signs/sympto	om	<u>IS</u>
Eye contact		Corrosive with symptoms of reddening, tearing, swelling, burning and possible permanent damage.
Inhalation	÷	No specific data.
Skin contact	•	Corrosive with symptoms of reddening, itching, swelling, burning and possible permanent damage. Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash when subsequently exposed to very low levels.

### Section 4. First aid measures

Ingestion : Corrosive with symptoms of coughing, burning, ulceration, and pain.

#### Potential chronic health effects

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Notes to physician	: Treat symptomatically. No specific treatment.
Protection of first-aiders	<ul> <li>If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.</li> </ul>

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire. In case of fire, use water spray (fog), foam or dry chemical.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst. Toxic and irritating gases/fumes may be given off during burning or thermal decomposition. Water runoff from fire fighting may be corrosive. Move containers from fire area if this can be done without risk. Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Use cold water spray to cool fire-exposed containers to minimize risk of rupture.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment and cleaning up	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. Prevent entry into sewers, water courses, basements or confined areas.

# Section 7. Handling and storage

Precautions for safe handling	
Protective measures :	Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Persons with a history of skin sensitization to this product should not be employed in any process in which this product is used.
Conditions for safe storage :	Store between the following temperatures: 0 to 40°C (32 to 104°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Section 8. Exposure controls/personal protection

#### **Occupational exposure limits**

No exposure limit value known.

Appropriate engineering controls	: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Personal protection	
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Respiratory protection	: A NIOSH approved positive pressure air-supplied respirator is required whenever airborne concentrations are not known overexceed the recommended exposure limit. For emergency and other conditions where the exposure limits may be greatly exceeded, use an approved, positive pressure self-contained breathing apparatus. This product has poor warning properties since the concentration at which the odor can be smelled is substantially higher than the airborne concentration standard/guideline. Observe OSHA regulations for respirator use (29 CFR 1910.134).
Skin protection	: chemical-resistant protective suit. Chemical-resistant gloves. Polyvinyl chloride - PVC, Polychloroprene - CR, or butyl rubber
Eye/face protection	<ul> <li>chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. If contact with product is possible, wear safety glasses with side shields.</li> </ul>
Medical Surveillance	: Not available.

# Section 9. Physical and chemical properties

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Physical state	:	Liquid. [dispersion , Emulsion.]
Color	:	White to yellowish. [Light]
Odor	:	Characteristic. [Slight]
Odor threshold	:	Not available.
рН	:	Not available.
Boiling point	1	>210 °C (1013 hPa)
Melting point	:	<0°C (<32°F)
Flash point	1	Ølosed cup: 191°C (375,8°F)
Evaporation rate	:	Not available.
Explosion limits	:	Not available.
Vapor pressure	:	7 hPa (20℃) 19 hPa (50℃) 21 hPa (55℃)
Density	:	1.044 g/cm <sup>3</sup>
Specific gravity (Relative density)	1	Not available.
Partition coefficient: n- octanol/water	:	Not available.
Vapor density	:	Not available.
Viscosity	1	Øynamic: 431,6 mPa⋅s Kinematic: 4,134 cm²/s
Efflux time	:	61s (20°C) nozzle section: 6mm
Ignition temperature	:	410°C
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.

# Section 10. Stability and reactivity

Reactivity Chemical stability	<ul> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>The product is stable.</li> </ul>
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials Hazardous decomposition	<ul> <li>No specific data.</li> <li>Under normal conditions of storage and use, hazardous decomposition products should</li> </ul>
products	not be produced.

# Section 11. Toxicological information

Information on the likely routes of exposure	: Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effect	<u>ets</u>
Eye contact	: Causes serious eye damage.
Inhalation	: May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: May cause burns to mouth, throat and stomach.
Symptoms related to the pl	nysical, chemical and toxicological characteristics
Eye contact	<ul> <li>Corrosive with symptoms of reddening, tearing, swelling, burning and possible permanent damage.</li> </ul>
Inhalation	: No specific data.

# Section 11. Toxicological information

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Skin contact	:	Corrosive with symptoms of reddening, itching, swelling, burning and possible permanent damage. Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash when subsequently exposed to very low levels.
Ingestion	:	Corrosive with symptoms of coughing, burning, ulceration, and pain.
Potential chronic health effe	<u>cts</u>	
Short term exposure		
Potential immediate effects	- :	Not available.
Long term exposure		
Potential delayed effects	:	Not available.
General	:	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
<b>Developmental effects</b>	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.
Information on toxicological	eff	ects

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	Test
Carbamic acid, butyl-, 3-iodo- 2-propynyl ester	LD50 Oral	Rat	300 to 500 mg/kg	-	-
Carbamic acid, butyl-, 3-iodo- 2-propynyl ester	LD50 Dermal	Rat	>2000 mg/kg	-	-
Zarbamic acid, butyl-, 3-iodo- 2-propynyl ester	LC50 Inhalation Dusts and mists	Rat - Male, Female	0.67 mg/l	4 hours	OECD 403 Acute Inhalation Toxicity

#### Irritation/Corrosion

**Conclusion/Summary** 

Skin : Carbamic acid, butyl-, 3-iodo-2-propynyl ester:Non-irritating

#### Eyes

: Carbamic acid, butyl-, 3-iodo-2-propynyl ester:Risk of serious damage to eyes.

#### **Sensitization**

••••••	Route of exposure	Species	Result
Carbamic acid, butyl-, 3-iodo- 2-propynyl ester	skin	Guinea pig	Sensitizing

#### Chronic toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Carbamic acid, butyl-, 3-iodo- 2-propynyl ester	Chronic NOAEL Oral	Rat	20 mg/kg/d	2 years

**Mutagenicity** 

# Section 11. Toxicological information

Product/ingredient name	Test	Experiment	Result
Zarbamic acid, butyl-, 3-iodo- 2-propynyl ester	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro	Negative
		Subject: Bacteria	
	OECD 476 <i>In vitro</i> Mammalian Cell Gene Mutation Test	Experiment: In vitro	Negative
		Subject: Mammalian-Animal Cell: Somatic	
	OECD 473 <i>In vitro</i> Mammalian Chromosomal Aberration Test	Experiment: In vitro	Negative
		Subject: Mammalian-Animal Cell: Somatic	

#### **Carcinogenicity**

Conclusion/Summary

: Thiabendazole: The mechanism of effect to the thyroid is specific to the rat. Thyroid adenomas in male rats.

Product/ingredient name	CAS #	IARC	NTP	OSHA
Carbamic acid, butyl-, 3-iodo-2-propynyl ester	55406-53-6	Not classified.	Not classified.	Not classified.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Zarbamic acid, butyl-, 3-iodo-2-propynyl ester	Category 3	Not applicable.	Respiratory tract irritation
Specific target organ toxicity (repeated exposure)			•
Name	Category	Route of exposure	Target organs
Zarbamic acid, butyl-, 3-iodo-2-propynyl ester	Category 1	Not determined	trachea
Acute toxicity estimates			

Route	ATE value (Acute Toxicity Estimates)
Oral	9166 mg/kg

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Test	Result	Species	Exposure
Carbamic acid, butyl-, 3-iodo-2-propynyl ester	-	Acute EC50 44 mg/l	Bacteria - Activated sludge	3 hours
	-	Acute EC50 0.21 mg/l	Daphnia - Daphnia magna	48 hours
	-	Acute IC50 0.026 mg/l	Algae - Desmodesmus subspicatus	72 hours
	-	Acute LC50 0.43 mg/l	Fish - Danio rerio	96 hours
	-	Chronic NOEC 0.0084 mg/l	Fish - Pimephales promelas	35 days

**Conclusion/Summary** : Not available.

Persistence and degradability

Product/ingredient name	Test Result			Dose		Inoculum
Zarbamic acid, butyl-, 3-iodo- 2-propynyl ester	OECD 302B Inherent Biodegradability: Zahn-Wellens/ EMPA Test	>80 % - Inherent - 1 days 0.02 to 1 r		mg/l adapted and activated sludge micro-organism		
Conclusion/Summary	: PBC is rapidly t	ransformed	in the environment	to PBC		
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradability	
Carbamic acid, butyl-, 3-iodo- 2-propynyl ester	-		-		Readily	
Bioaccumulative potential						
Product/ingredient name	LogPow		BCF		Potential	
Carbamic acid, butyl-, 3-iodo- 2-propynyl ester	2.8		-		low	
Mobility in soil					•	
Soil/water partition coefficient (Koc)	: Not available.					
Other adverse effects	: No known signi	ficant effects	or critical hazards	3.		

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls laws.
RCRA classification	: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

# Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (THIABENDAZOLE, 3-IODO- 2-PROPINYL-N- BUTYLCARBAMATE )	9			8, 146, 173, 335, IB3, T4, TP1, TP29The U. S. Department of Transportation regulations in 49CFR 172.102 permit this material to ship as an Environmentally Hazardous Substance Class 9, using Specia Provision 146.

Section 14. Transport information					
IMDG Class	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (THIABENDAZOLE, 3-IODO- 2-PROPINYL-N- BUTYLCARBAMATE )	9		<u>Emergency</u> <u>schedules (EmS)</u> F-A, S-F
IATA-DGR Class	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (THIABENDAZOLE, 3-IODO- 2-PROPINYL-N- BUTYLCARBAMATE )	9	III	Passenger aircraft 964: 450 L Cargo aircraft 964: 450 L

PG\* : Packing group

RQ

: 0 lbs

Section 15. Regulatory information				
SARA 311/312	: Immediate (acute) health hazard			
SARA Title III Section 302 Extremely Hazardous Substances	: None			
	Ingredient name	<u>CAS number</u>	Concentration (%)	
SARA Title III Section 313 Toxic Chemicals	<ul> <li>Thiabendazole Carbamic acid, butyl-, 3-iodo-2-propynyl ester</li> </ul>	148-79-8 55406-53-6	15 - 21% 3 - 5%	
US EPA CERCLA Hazardous Subtances (40 CFR 302.4)	: None			
State regulations				

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Ingredient name	CAS number	State Code	<u>Concentration</u> <u>(%)</u>		
Disononylphthalate	28553-12-0	NJ - HS, PA - RTK HS	71 - 77%		
Thiabendazole	148-79-8	NJ - HS	15 - 21%		
Carbamic acid, butyl-, 3-iodo-2-propynyl ester	55406-53-6	NJ - HS	3 - 5%		
Soybean oil, epoxidized	8013-07-8		3 - 5%		
Massachusetts Substances: MA - S Massachusetts Extraordinary Hazardous Substances: MA - Extra HS New Jersey Hazardous Substances: NJ - HS Pennsylvania RTK Hazardous Substances: PA - RTK HS Pennsylvania Special Hazardous Substances: PA - Special HS					
<u>California Prop. 65</u>					
WARNING: This product contains a chemical known to the State of California to cause cancer.					
Ingredient name CAS #	<u>Concentration</u>	on (%) Cancer	<b>Reproductive</b>		
Diisononylphthalate 28553-1	2-0 71 - 77%	Yes			
	product is excluded fron as a pesticide.	n TSCA Regulation under FIFF	RA Section 3 (2)(B)(ii) when		

Biochek 8064

57068750

Version 3.01

# Section 15. Regulatory information

#### **FIFRA**

#### EPA Registration Number : 39967-131

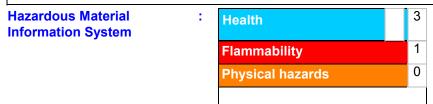
This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

Signal word : 🖉	AUTION
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Hazard statements

: May be fatal if inhaled. Harmful if swallowed. Harmful if absorbed through the skin.

### Section 16. Other information



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0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme \*=Chronic

The customer is responsible for determining the PPE code for this material. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

#### N

National Fire Protection Association (U.S.A.)



#### 0= Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

LANXESS' method of hazard communication is comprised of Product Labels and Safety Data Sheets. HMIS and NFPA ratings are provided by LANXESS as a customer service.

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	Product Safety and

✓ Indicates information that has changed from previously issued version.

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**Regulatory Affairs**