Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

# **SAFETY DATA SHEET**



TEKNOSEAL 4002-00 - COLOURLESS

# SECTION 1: Identification of the substance/mixture and of the company/ undertaking

# 1.1 Product identifier Product name : ₱EKNOSEAL 4002-00 - COLOURLESS 1.2 Relevant identified uses of the substance or mixture and uses advised against Product use : ₱aint. 1.3 Details of the supplier of the safety data sheet ₱eknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

e-mail address of person : Frod-safe@teknos.com responsible for this SDS

# National contact

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₱ Peknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

# 1.4 Emergency telephone number

#### National advisory body/Poison Centre

Telephone number : In an emergency, call 112

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Maustic Chronic 3, H412

Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements		
Signal word	1	No signal word.
Hazard statements	:	₩412 - Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	₽273 - Avoid release to the environment.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	₱501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	-	Contains adipohydrazide, 3-iodo-2-propynyl-butyl carbamate, 1,2-benzisothiazol-3 (2H)-one, 2-methyl-2H-isothiazol-3-one and 2-Methyl-1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction. Contains biocidal products for dry film and in-can preservation: IPBC and BIT and DTBMA and MBIT. Risk of skin sensitisation.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	

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# **SECTION 2: Hazards identification**

#### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII Other hazards which do not result in classification

: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

: None known.

# **SECTION 3: Composition/information on ingredients**

: Mixture	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
REACH #: 01-2119475527-28 EC: 225-878-4 CAS: 5131-66-8 Index: 603-052-00-8	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
EC: 213-999-5 CAS: 1071-93-8	<1	Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7	≤0.3	Acute Tox. 4, H302 Acute Tox. 3, H331 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 (larynx) Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 400 mg/kg ATE [Inhalation (dusts and mists)] = 0.67 mg/l M [Acute] = 10 M [Chronic] = 1	[1]
EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0.05	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	ATE [Oral] = 1020 mg/kg Skin Sens. 1, H317: C ≥ 0.05% M [Acute] = 1	[1]
EC: 220-239-6 CAS: 2682-20-4	<0.0015	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300  mg/kg ATE [Inhalation (dusts and mists)] = 0.11 mg/l Skin Sens. 1, H317: C $\geq$ 0.0015% M [Acute] = 10 M [Chronic] = 1	[1]
CAS: 2527-66-4 Index: 613-336-00-3	<0.0015	Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 EUH071	ATE [Oral] = 175 mg/kg ATE [Dermal] = 1100 mg/kg Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 1	[1]
	REACH #:         01-2119475527-28         EC: 225-878-4         CAS: 5131-66-8         Index: 603-052-00-8         EC: 213-999-5         CAS: 1071-93-8         EC: 259-627-5         CAS: 55406-53-6         Index: 616-212-00-7         EC: 220-120-9         CAS: 2634-33-5         Index: 613-088-00-6         EC: 220-239-6         CAS: 2682-20-4         CAS: 2527-66-4	REACH #:       ≤3         01-2119475527-28       ≤3         EC: 225-878-4       CAS: 5131-66-8         Index: 603-052-00-8       EC: 213-999-5         EC: 213-999-5       <1	REACH #:         Skin Irrit. 2, H315           01-2119475527-28         Skin Irrit. 2, H315           EC: 225-878-4         CAS: 5131-66-8           Index: 603-052-00-8         Skin Sens. 1, H317           Aquatic Chronic 2, H411         Aquatic Chronic 2, H411           EC: 213-999-5         <1	Identifiers         7°         Classification         Limits, M-factors and ATEs           REACH #: 01-2119475527-28 EC: 225-878-4 CAS: 5131-66-8 Index: 603-052-00-8         ≤3         Skin Irrit. 2, H315 Eye Irrit. 2, H319         -           EC: 213-999-5 CAS: 1071-93-8         <1

# SECTION 3: Composition/information on ingredients See Section 16 for the full text of the H statements declared above.

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 or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

7 Substance classified with a health or environmental hazard

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

# SECTION 4: First aid measures

4.1 Description of first aid m	neasures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: $\mathbf{R}$ emove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin contact	: Fush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. 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.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

# 4.2 Most important symptoms and effects, both acute and delayed

# Over-exposure signs/symptoms

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: 📈 specific data.
Ingestion	: No specific data.

# 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: <b>F</b> reat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	: $\mathbf{V}$ se an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
5.2 Special hazards arising	rom the substance or mixture
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide

#### 5.3 Advice for firefighters

# SECTION 5: Firefighting measures

-	-
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.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

# **SECTION 6: Accidental release measures**

otective equipment and emergency procedures
Image: 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 spilt material. Put on appropriate personal protective equipment.
If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
: Kvoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmenta pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
containment and cleaning up
: Stop leak if without risk. Move containers from spill area. Dilute with water and more up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product.
: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

# 7.1 Precautions for safe handling

Protective measures	: Fut on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. 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.
Advice on general occupational hygiene	: Fating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

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# **SECTION 7: Handling and storage**

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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

# 7.3 Specific end use(s)

Recommendations

: Not available.

Industrial sector specific solutions

: Not available.

# **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
No exposure limit value known.	
• · · ·	ontains ingredients with exposure limits, personal, workplace

procedures atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Туре	Exposure	Value	Population	Effects
DNEL	Long term Oral	8.75 mg/ kg bw/day	General	Systemic
DNEL	Long term Dermal	16 mg/kg	General	Systemic
DNEL	Long term		General	Systemic
DNEL	Long term Dermal	44 mg/kg bw/day	Workers	Systemic
DNEL	Short term Dermal	50 %	General	Local
DNEL	Long term Dermal	50 %	General	Local
DNEL	Short term Dermal	50 %	Workers	Local
DNEL	Long term Dermal	50 %	Workers	Local
DNEL	Long term	147 mg/m³	Workers	Systemic
DNEL	Long term Inhalation	8.6 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Long term Inhalation	0.023 mg/ m³	Workers	Systemic
DNEL	Short term		Workers	Systemic
DNEL	Short term	1.16 mg/m <sup>3</sup>	Workers	Local
DNEL	Long term Inhalation	1.16 mg/m <sup>3</sup>	Workers	Local
	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	DNELLong term OralDNELLong term DermalDNELLong term InhalationDNELLong term DermalDNELShort term DermalDNELShort term DermalDNELLong term DermalDNELLong term DermalDNELLong term DermalDNELLong term DermalDNELLong term DermalDNELLong term InhalationDNELLong term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term Inhalation	DNELLong term Oral8.75 mg/ kg bw/dayDNELLong term Dermal16 mg/kg bw/dayDNELLong term33.8 mg/m³Inhalation33.8 mg/m³DNELLong term Dermal44 mg/kg bw/dayDNELLong term Dermal44 mg/kg bw/dayDNELShort term Dermal50 %DNELLong term Dermal50 %DNELShort term Dermal50 %DNELLong term Dermal50 %DNELLong term Dermal50 %DNELLong term Dermal50 %DNELLong term50 %DNELLong term60 %DNELLong term0.023 mg/ m³DNELShort term0.07 mg/m³DNELShort term1.16 mg/m³	DNELLong term Oral8.75 mg/ kg bw/dayGeneral populationDNELLong term Dermal16 mg/kg bw/daygeneral populationDNELLong term33.8 mg/m³General populationDNELLong term Dermal44 mg/kg bw/dayWorkersDNELLong term Dermal44 mg/kg bw/dayWorkersDNELShort term Dermal50 %General populationDNELShort term Dermal50 %General populationDNELLong term Dermal50 %WorkersDNELLong term147 mg/m³WorkersDNELLong term0.023 mg/ m³WorkersDNELShort term0.07 mg/m³WorkersDNELShort term1.16 mg/m³Workers

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	DNEL	Long term Dermal	2 mg/kg bw/day	Workers	Systemic
1,2-benzisothiazol-3(2H)-one	DNEL	Long term Dermal	0.345 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.966 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.2 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	6.81 mg/m³		Systemic
2-methyl-2H-isothiazol-3-one	DNEL	Long term Inhalation	0.021 mg/ m³	General population	Local
	DNEL	Long term Inhalation	0.021 mg/ m³	Workers	Local
	DNEL	Long term Oral	0.027 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	0.043 mg/ m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	0.043 mg/ m³	Workers	Local
	DNEL	Short term Oral	0.053 mg/ kg bw/day	General population	Systemic

#### **PNECs**

No PNECs available

Appropriate engineering controls	: Sood general ventilation should be sufficient to control worker exposure to airborn contaminants.		
ndividual protection meas			
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 Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.		
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.		
Skin protection			
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.		
	$\mathbf{R}$ ecommendations : Wear suitable gloves tested to EN374.		
	> 8 hours (breakthrough time): Nítrile gloves. thickness > 0.3 mm		
	Not recommended polyvinyl alcohol (PVA) gloves		
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Other skin protection	: Repropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		

# **SECTION 8: Exposure controls/personal protection**

	· ·
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
	Filter type (spray application): 🛛 📈 P
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

# 9.1 Information on basic physical and chemical properties

#### **Appearance**

Physical state	: 🗾 Iquid.
Colour	: 🖉 olourless.
Odour	: <mark>S</mark> light
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and	:
boiling range	

Ingredient name	°C	°F	Method
water	100	212	
3-Butoxypropan-2-ol	171	339.8	OECD 103

Flammability	: Not available.
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Lower and upper explosion : Kower: Not applicable.

Upper: Not applicable.

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Flash point

limit

: Ølosed cup: >100°C (>212°F)

#### Auto-ignition temperature

Ingredient name	°C	°F	Method
<mark>β≁</mark> Butoxypropan-2-ol	260	500	EU A.15
2,2,4-trimethylpentane-1,3-diol isobutyrate	393	739.4	

Decomposition temperature	4	Not available.
рН	:	Not available.
Viscosity	:	Not available.
Solubility(ies)	:	
Not available.		
Solubility in water	:	Not available.
Partition coefficient: n-octanol/	÷	Not applicable.

# Vapour pressure

water

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	23.8	3.2				
3-Butoxypropan-2-ol	1.05	0.14	OECD 104			
Relative density	: Not	available.	<u>-</u>			
Density	: 1/g/cm <sup>3</sup>					
/apour density	: Not available.					
Explosive properties	: Not	available.				
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# **SECTION 9: Physical and chemical properties**

Oxidising properties	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

SECTION 10: Sta	ability and reactivity
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Inder normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	No specific data.
10.5 Incompatible materials	:	No specific data.
10.6 Hazardous decomposition products	:	Inder normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ℬ-Butoxypropan-2-ol	LD50 Dermal	Rabbit	3100 mg/kg	-
3-iodo-2-propynyl-butyl carbamate	LC50 Inhalation Dusts and mists	Rat	0.67 g/m³	4 hours
	LC50 Inhalation Dusts and mists	Rat	0.763 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	400 mg/kg	-
1,2-benzisothiazol-3(2H)- one	LD50 Oral	Rat	1020 mg/kg	-
2-methyl-2H-isothiazol- 3-one	LC50 Inhalation Dusts and mists	Rat	0.11 mg/l	4 hours
Conclusion/Summary	: Based on available data, the	classification crite	eria are not met.	•

Acute toxicity estimates

Route	ATE value		
halation (dusts and mists)	223.96 mg/l		

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Butoxypropan-2-ol 3-iodo-2-propynyl-butyl carbamate	Skin - Moderate irritant Eyes - Severe irritant	Rabbit Rabbit	-	-	-
1,2-benzisothiazol-3(2H)-one	Skin - Mild irritant	Human	-	48 hours 5 %	-

Conclusion/Summary

: Based on available data, the classification criteria are not met.

#### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result	
了iodo-2-propynyl-butyl carbamate	skin	Guinea pig	Not sensitizing	
<b>Conclusion/Summary</b> : Based on available data, the classification criteria are not met.				

**Mutagenicity** 

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# SECTION 11: Toxicological information Product/ingredient name Test Experiment Result Image: Side 2-propynyl-butyl carbamate Experiment: In vitro Subject: Bacteria Negative Conclusion/Summary : Fased on available data, the classification criteria are not met. Carcinogenicity

: Based on available data, the classification criteria are not met.

# Conclusion/Summary

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
✗-iodo-2-propynyl-butyl carbamate	Negative	-	Negative	Rabbit - Female	Oral: 20 mg/kg	13 days; 7 days per week
	Positive	-	Negative	Rabbit - Female	Oral: 50 mg/kg	13 days; 7 days per week

**Conclusion/Summary** : **B** ased on available data, the classification criteria are not met.

# **Teratogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
了iodo-2-propynyl-butyl carbamate	Negative - Oral	Rabbit - Female	50 mg/kg	-

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

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

Not available.

# Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Ĩodo-2-propynyl-butyl carbamate	Category 1	-	larynx

### **Aspiration hazard**

Not available.

Information on likely routes of exposure	: Not available.	
Potential acute health effects	<u>S</u>	
Eye contact	: No known significant effects or critical hazards.	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	: No known significant effects or critical hazards.	
Ingestion	: 📈 known significant effects or critical hazards.	
Symptoms related to the phy	vsical, chemical and toxicological characteristics	
Eye contact	: No specific data.	
Inhalation	: No specific data.	
Skin contact	: No specific data.	
Ingestion	: 📈 specific data.	
Delayed and immediate effect	cts as well as chronic effects from short and long-term expo	osure
Short term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Long term exposure		
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# **SECTION 11: Toxicological information**

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
Conclusion/Summary	: Not available.
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

# 11.2 Information on other hazards

11.2.1 Endocrine disrupting propertiesNot available.11.2.2 Other information

Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
₿-iodo-2-propynyl-butyl	Acute EC50 0.022 mg/l Fresh water	Algae - Scenedemus	72 hours
carbamate	_	subspicatus	
	Acute EC50 0.16 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.067 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute NOEC 0.049 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.05 mg/l Fresh water	Daphnia - Daphnia Magna	21 days
1,2-benzisothiazol-3(2H)-one	Acute EC50 0.36 mg/l Marine water	Algae - Skeletonema Costatum	72 hours
	Acute EC50 3.7 mg/l	Daphnia - Daphnia Magna	48 hours
	Acute LC50 1.9 mg/l Fresh water	Fish - Onorhynchus Mykiss	96 hours
	Acute NOEC 0.15 mg/I Marine water	Algae - Skeletonema Costatum	72 hours
2-methyl-2H-isothiazol-3-one	Acute EC50 0.18 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.07 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
2-Methyl-1,2-benzisothiazol- 3(2H)-one	Acute EC50 0.22 ppm Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 0.92 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.24 ppm Fresh water	Fish - Oncorhynchus mykiss -	96 hours
		Juvenile (Fledgling, Hatchling, Weanling)	
	Chronic NOEC 0.16 ppm	Fish - Pimephales promelas	32 days

**Conclusion/Summary** : Farmful to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
7,2-benzisothiazol-3(2H)-one	EU	24 % - 28 days		-	-
Conclusion/Summary : This product has not been tested for biodegradation.					
Product/ingredient name	Aquatic half-life		Photolysis	\$	Biodegradability
Giodo-2-propynyl-butyl carbamate 1,2-benzisothiazol-3(2H)-one	-		-		Not readily Inherent

#### **12.3 Bioaccumulative potential**

SECTION 12: Ecological information			
Product/ingredient name	LogPow	BCF	Potential
<ul> <li>Butoxypropan-2-ol</li> <li>3-iodo-2-propynyl-butyl</li> <li>carbamate</li> </ul>	1.2 >1	-	low low
1,2-benzisothiazol-3(2H)-one	-	3.2	low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### **12.6 Endocrine disrupting properties**

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

13.1 Waste treatment meth	nods
Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
European waste catalogue (EWC)	: 🕅 80111*
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	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 spilt material and runoff and contact with soil waterways drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	<b>F</b>			<b>F</b>
14.3 Transport hazard class(es)				
Date of issue/Date of re	vision : 19/10/2	022 Date of previous issu	e : 03/03/2020	Version : 1.08 11/
KNOSEAL 4002-				Label No :38866

group       It.5       It.5       It.5         Environmental hazards       No.       No.       No.         14.6 Special procautions for user       : Transport within user's premises: always transport in closed containers that a upright and secure. Ensure that persons transporting the product know what to o the event of an accident or spillage.         14.7 Maritime transport in bulk according to IMO instruments       : Not relevant/applicable due to nature of the product.         SECTION 15: Regulatory information       : Not relevant/applicable due to nature of the product.         15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)         Annex XIV - List of substances subject to authorisation Annex XIV: - List of substances subject to authorisation Annex XIV: - Restrictions : on the manufacture, placing on the market and use of certain dangerous substances, infoit listed (integrated pollution prevention and control) - Ar         Industrial emissions : Not listed (integrated pollution prevention and control) - Ar       : Not listed (integrated pollution prevention and control) - Ar         Prior informed Consent (PIC) (649/2012/EU) Not listed.       : Not listed (integrated pollution prevention and control) - Water         Ozone depleting substances (1005/2009/EU) Not listed.       : Not listed (integrated pollution prevention and control) - Water         Prior informed Consent (PIC) (649/2012/EU) Not listed.       : Not listed Pris product is not controlled under the Seveso Directive.         S	14.4 Packing	-			
14.6 Special precautions for spillage       : Transport within user's premises: always transport in closed containers that a upright and secure. Ensure that persons transporting the product know what to or the event of an accident or spillage.         14.7 Maritime transport in spillage       : Not relevant/applicable due to nature of the product.         bulk according to IMO instruments       : Not relevant/applicable due to nature of the product.         SECTION 15: Regulatory information       : Not relevant/applicable due to nature of the product.         15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture       : U Regulation (EC) No. 1907/2006 (REACH)         Annex XIV - List of substances subject to authorisation Annex XIV       None of the components are listed.         Substances of very high concern       None of the components are listed.         None of the components are listed.       : Substances, mixtures and articles         Other EU regulations       : Not listed         (integrated pollution prevention and control) - Air       : Not listed         Industrial emissions       : Not listed         (integrated pollution prevention and control) - Water       : Not listed.         Prior Informed Consent (PIC) (649/2012/EU)       Not listed.         Priorstent Organic Pollutants       Not listed.         Priorstent Organic Pollutants       Not listed.         Streves Directive       Fhis product is	14.5 Environmental	No.	<b>N</b> ó.	<b>N</b> o.	<b>N</b> o.
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International regulations			r the Seveso Directive.		
Chemical Weapon Convention List Schedules I, II & III Chemicals			st Schedules I, II & III C	Chemicals	
	Montreal Protoco	<u>)</u>			

Not listed.

: 19/10/2022 Date of previous issue

# **SECTION 15: Regulatory information**

Stockholm Convention on Persistent Organic Pollutants

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** Not listed.

# **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

15.2 Chemical safety	:	This product contains substances for which Chemical Safety Assessments are still
assessment		required.

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number</li> </ul>
	SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

# Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Aquatic Chronic 3, H412	Calculation method

#### Full text of abbreviated H statements

<b>⊮</b> 301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

# Full text of classifications [CLP/GHS]

Acute Tox. 2	ACUTE TOXICITY - Category 2	
Acute Tox. 3	ACUTE TOXICITY - Category 3	
Acute Tox. 4	ACUTE TOXICITY - Category 4	
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1	
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1	
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2	
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B	
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C	
Date of issue/Date of rev	ision : 19/10/2022 Date of previous issue : 03/03/2020	Version : 1.08 13/15

SECTION 16: Other information		
Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1A STOT RE 1	SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1	
Date of issue/ Date of revision	: 19/10/2022	
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Version	: 1.08	
	KNOSEAL 4002-00_COLOURLESS	

#### Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

Date of issue/Date of revision: 19/10.FEKNOSEAL 4002-00 - COLOURLESS

: 19/10/2022 Date of previous issue

:03/03/2020

Version : 1.08 15/15 Label No : 38866