

according to Regulation (EC) No 1907/2006

Revision date: 28.09.2022

Product code: 3D-H11-CLEAR

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

### 1.1. Product identifier

3D-H11-CLEAR Premium Colorless

# Further trade names

3D-H11-CLEAR-1K | 3D-H11-CLEAR-5K

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Inks, toners and related printing materials

#### 1.3. Details of the supplier of the safety data sheet

Company name:	Octopus Fluids GmbH & Co.KG	
Street:	Hamburger Str. 14	
Place:	D-01067 Dresden	
Telephone:	+ 49 351 7968925	Telefax: +49 351 8894982
e-mail:	mail@octopus-fluids.de	
Contact person:	Lange	
e-mail:	mail@octopus-fluids.de	
Internet:	www.octopus-fluids.de	
1.4. Emergency telephone	+ 49 351 7968925 (9 a.m. to 4 p.m.)	
mumber.		

#### <u>number:</u>

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

# Regulation (EC) No 1272/2008

Repr. 1B; H360

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

### Regulation (EC) No 1272/2008

- Hazard components for labelling
- 2-pyrrolidinone
- Signal word:

**Pictograms:** 



Danger

#### Hazard statements

H360

May damage fertility or the unborn child.

### Precautionary statements

oudlionaly olulo	
P501	Dispose of contents/container to an appropriate recycling or disposal facility.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
	1
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.

#### Special labelling of certain mixtures

EUH208

Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-



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2H-isothiazol-3-one (3:1). May produce an allergic reaction. Restricted to professional users.

## 2.3. Other hazards

No information available.

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

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC)	No 1272/2008)		
616-45-5	2-pyrrolidinone			1 - < 3 %
	Repr. 1B, Eye Irrit. 2; H360 H3	9		
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether			
	203-961-6	603-096-00-8		
	Eye Irrit. 2; H319			
52-51-7	bronopol (INN); 2-bromo-2-nitro		< 0.1 %	
	200-143-0	603-085-00-8		
	Acute Tox. 4, Acute Tox. 4, Ski H315 H318 H335 H400			
55965-84-9	reaction mass of 5-chloro-2-me	< 0.1 %		
	-	613-167-00-5		
	Acute Tox. 2, Acute Tox. 2, Acu Acute 1, Aquatic Chronic 1; H3:			

Full text of H and EUH statements: see section 16.

## Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. I	Limits, M-factors and ATE	
112-34-5	203-961-6	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	< 0.1 %
	dermal: LD50 =	= 4120 mg/kg; oral: LD50 = 5660 mg/kg	
52-51-7	200-143-0	bronopol (INN); 2-bromo-2-nitropropane-1,3-diol	< 0.1 %
	dermal: ATE =	1100 mg/kg; oral: ATE = 500 mg/kg Aquatic Acute 1; H400: M=10	
55965-84-9	-	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	< 0.1 %
	LD50 = 141 mg H315: >= 0,06 - Skin Sens. 1A; Aquatic Acute 1	50 = 94,2 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: //kg; oral: LD50 = 66 mg/kg Skin Corr. 1C; H314: >= 0,6 - 100 Skin Irrit. 2; - < 0,6 Eye Dam. 1; H318: >= 0,6 - 100 Eye Irrit. 2; H319: >= 0,06 - < 0,6 H317: >= 0,0015 - 100 I; H400: M=100 c 1; H410: M=100	

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

#### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary.

## After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.



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#### After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

#### After ingestion

Observe risk of aspiration if vomiting occurs. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

No information available.

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

Treat symptomatically.

### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

#### 5.2. Special hazards arising from the substance or mixture

Non-flammable.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

#### **General advice**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

## 6.3. Methods and material for containment and cleaning up

#### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

# Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat,



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drink, smoke, sniff.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

#### Hints on joint storage No special measures are necessary.

# 7.3. Specific end use(s)

Inks, toners and related printing materials

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

### 8.1. Control parameters

#### **Occupational exposure limit values**

CAS No	Name of agent	ppm	mg/m³	fib/cm³	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	
		15	101.2		STEL (15 min)	

### 8.2. Exposure controls



#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear eye/face protection.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Use of protective clothing.

### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

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

#### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	colourless
Melting point/freezing point:	
Boiling point or initial boiling point and	
boiling range:	

not determined not determined



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Flammability:	not applicable			
	not applicable			
Lower explosion limits:	not determined			
Upper explosion limits:	not determined			
Flash point:	not determined			
Auto-ignition temperature:	not determined			
Decomposition temperature:	not determined			
pH-Value (at 20 °C):	8,15			
Water solubility:	easily soluble			
Solubility in other solvents				
not determined				
Partition coefficient n-octanol/water:	not determined			
Vapour pressure:	not determined			
Density:	not determined			
Relative vapour density:	not determined			
9.2. Other information				
Information with regard to physical hazard	classes			
Explosive properties				
The product is not: Explosive.				
Oxidizing properties				
The product is not: oxidising.				
Other safety characteristics				
Evaporation rate:	not determined			
Solid content:	not determined			
Viscosity / dynamic:	1,2 mPa·s			
(at 25 °C)				

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

## 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

none

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# **SECTION 11: Toxicological information**

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

#### Acute toxicity

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



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CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
112-34-5	2-(2-butoxyethoxy)etha	anol; diethyle	ne glycol mon	obutyl ether			
	oral	LD50 mg/kg	5660	Rat			
	dermal	LD50 mg/kg	4120	Rabbit			
52-51-7	bronopol (INN); 2-brom	no-2-nitroproj	pane-1,3-diol				
	oral	ATE mg/kg	500				
	dermal	ATE mg/kg	1100				
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)						
	oral	LD50	66 mg/kg				
	dermal	LD50 mg/kg	141				
	inhalation vapour	LC50	94,2 mg/l				
	inhalation dust/mist	ATE	0,05 mg/l				

### Irritation and corrosivity

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

#### Sensitising effects

Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

# Carcinogenic/mutagenic/toxic effects for reproduction

May damage fertility or the unborn child. (2-pyrrolidinone) Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met.

#### STOT-single exposure

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

## STOT-repeated exposure

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

#### Aspiration hazard

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

#### 11.2. Information on other hazards

#### Other information

No information available.

### **Further information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

## **SECTION 12: Ecological information**

### 12.1. Toxicity

The product is not: Ecotoxic.



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CAS No	Chemical name	Chemical name				
	Aquatic toxicity	Dose	[h]	d] Species	Source	Method
112-34-5	2-(2-butoxyethoxy)ethano	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether				
	Acute algae toxicity	ErC50 > 10 mg/l	D	Scenedesmus sp.		
	Acute crustacea toxicity	EC50 > 10 mg/l	0 4	h Daphnia magna		

### 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	0,56 (25°C)

#### 12.4. Mobility in soil

The product has not been tested.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The product has not been tested.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

No information available.

### **Further information**

# Avoid release to the environment.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

## Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### Contaminated packaging

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.

## **SECTION 14: Transport information**

#### Land transport (ADR/RID)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### 14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

#### 14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.



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## **SECTION 15: Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information Restrictions on use (REACH, annex XVII):		
Entry 3, Entry 55, Entry 75 2004/42/EC (VOC):	0.119 %	
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.	
Water hazard class (D):	1 - slightly hazardous to water	
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.	

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

#### Abbreviations and acronyms

CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals **UN: United Nations** CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LC50: Lethal concentration. 50% LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).



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## Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

	Classification	Classification procedure
	Repr. 1B; H360	Calculation method
Relevant H and EUH statements (number and full text) H301 Toxic if swallowed.		s (number and full text)
		if swallowed.

11301	
H302	Harmful if swallowed.
H310	Fatal 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.
H335	May cause respiratory irritation.
H360	May damage fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
EUH208	Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-
	2H-isothiazol-3-one (3:1). May produce an allergic reaction.

#### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)