# **SAFETY DATA SHEET**



Recombinant CloneDetect

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

1.1 Product identifier	
Product name	: Recombinant CloneDetect
Product type	: Liquid.
Product part number	: K8295
1.2 Relevant identified use	s of the substance or mixture and uses advised against

1.2 Relevant lucitureu uses o	
Product use	: For R&D use only.
Area of application	: Professional applications.

## **1.3 Details of the supplier of the safety data sheet** MOLECULAR DEVICES, LLC

San Jose, CA 95134 USA	
e-mail address of person responsible for this SDS	: msdsinquiry@moldev.com

#### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

Telephone number

: CHEMTREC (24 hours): 1-800-424-9300 (USA/Canada), +1 703-527-3887 (Outside USA/Canada)

## SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Product definition	: Mixture
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Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Eye Irrit. 2, H319

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

Ingredients of unknown<br/>toxicity: 1 percent of the mixture consists of component(s) of unknown oral toxicity<br/>12 percent of the mixture consists of component(s) of unknown dermal toxicity<br/>12 percent of the mixture consists of component(s) of unknown inhalation toxicity<br/>: Contains 1 % of components with unknown hazards to the aquatic environment

#### ecotoxicity

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.

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## SECTION 2: Hazards identification

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#### 2.2 Label elements

Hazard pictograms



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Signal word	:	Warning
Hazard statements	:	H319 - Causes serious eye irritation.
Precautionary statements		
Prevention	:	P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling.
Response	:	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	1	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	en	t <u>s</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Other hazards which do	1	None known.

Other hazards which do : None known. not result in classification

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

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
sodium chloride	EC: 231-598-3 CAS: 7647-14-5	≤10	Eye Irrit. 2, H319	[1]
2-(6-hydroxy-3-oxo-(3H)-xanthen- 9-yl)benzoic acid	EC: 219-031-8 CAS: 2321-07-5	≤3	Eye Irrit. 2, H319	[1]
disodium hydrogenorthophosphate	EC: 231-448-7 CAS: 7558-79-4	≤3	Eye Irrit. 2, H319	[1]
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# 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.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

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[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Eye contact	eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. 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.
Skin contact	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.</li> </ul>
Ingestion	: Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. 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. Get medical attention if adverse health effects persist or are severe. 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.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### 4.2 Most important symptoms and effects, both acute and delayed <u>Over-exposure signs/symptoms</u>

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## **SECTION 4: First aid measures**

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

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

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

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , alcohol-resistant foam or water spray (fog).
Unsuitable extinguishing media	: Do not use water jet.

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

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Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	<ul> <li>Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus oxides halogenated compounds metal oxide/oxides</li> </ul>
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	<ul> <li>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)</li> </ul>

chemical incidents.

conforming to European standard EN 469 will provide a basic level of protection for

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

6.1	Personal	precautions.	protective ec	uipment and	emergency	procedures
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For non-emergency personnel	:	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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	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".
6.2 Environmental precautions	:	Avoid dispersal of spilt 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).
6.3 Methods and material for	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop 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.
Large spill	:	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.
6.4 Reference to other sections	:	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**

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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	: Eating, 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 between the following temperatures: 2 to 8°C (35.6 to 46.4°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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### 7.3 Specific end use(s)

Recommendations

Not available.Not available.

Industrial sector specific solutions

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

#### 8.1 Control parameters

#### **Occupational exposure limits**

No exposure limit value known.

Recommended monitoring procedures If this product contains ingredients with exposure limits, personal, workplace 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**

No DNELs/DMELs available.

#### **PNECs**

No PNECs available

#### 8.2 Exposure controls

Appropriate engineering	1	Good general ventilation should be sufficient to control worker exposure to airborne
controls		contaminants.

Individual protection measures

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

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: chemical splash goggles.
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.
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	:	Appropriate 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.
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.
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**

9.1 Information on basic physical	l and chemical properties
<u>Appearance</u>	
Physical state	: Liquid. [Clear.]
Colour	: Yellow.
Odour	: Not available.
Odour threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling	: Not available.
range	
Flash point	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.

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comments

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

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Upper/lower flammability or explosive limits	:	Not available.
Vapour pressure	:	Not available.
Vapour density	:	Not available.
Relative density	:	Not available.
Solubility(ies)	:	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Not available.
Explosive properties	:	Not available.
Oxidising properties	:	Not available.
9.2 Other information		
Solubility in water	:	Not available.
Physical/chemical properties	:	No additional information.

## **SECTION 10: Stability and reactivity**

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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	: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occu
10.4 Conditions to avoid	: Sensitive to light.
10.5 Incompatible materials	: No specific data.
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

## Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
sodium chloride disodium hydrogenorthophosphate	LD50 Oral LD50 Oral	Rat Rat	3000 mg/kg 17000 mg/kg	-
Conclusion/Summary	: Not available.			

## Acute toxicity estimates

Not available.

## Irritation/Corrosion

Product/ingredient name	Result	S	pecies	Score	Exposure	Ob	servation
sodium chloride	Eyes - Moderate irr	itant Rab	bit ·	-	24 hours 100	-	
					milligrams		
	Eyes - Moderate irr			-	10 milligrams	-	
	Skin - Mild irritant	Rab	DIT	-	24 hours 500 milligrams	-	
2-(6-hydroxy-3-oxo-(3H)-	Eyes - Severe irrita	nt Rab	bit .	_	24 hours 100	_	
xanthen-9-yl)benzoic acid					microliters		
disodium	Eyes - Mild irritant	Rab	bit ·	-	24 hours 500	-	
hydrogenorthophosphate					milligrams		
	Skin - Mild irritant	Rab	bit ·	-	24 hours 500	-	
					milligrams		
Conclusion/Summary	: Not available.						
<u>Sensitisation</u>							
<b>Conclusion/Summary</b>	: Not available.						
<u>Mutagenicity</u>							
<b>Conclusion/Summary</b>	: Not available.						
Carcinogenicity							
Conclusion/Summary	: Not available.						
Reproductive toxicity							
Conclusion/Summary	: Not available.						
Teratogenicity							
Conclusion/Summary	: Not available.						
Information on likely routes	: Routes of entry a	anticipated: Oral, D	) ermal, Inha	alation.			
of exposure							
Potential acute health effects							
Eye contact	: Causes serious e	eye irritation.					
Inhalation	: No known signifi	cant effects or criti	ical hazards	5.			
Skin contact	: No known signifi	cant effects or criti	ical hazards	<b>5</b> .			
Ingestion	: No known signifi	cant effects or criti	ical hazards	5.			
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## **SECTION 11: Toxicological information**

Symptoms related to	the physical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	fects
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.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

#### **Other information**

: Not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	ne Result Species		Exposure	
sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours	
	Acute EC50 28.85 mg/dm3 Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours	
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours	
	Acute EC50 402600 µg/l Fresh water	Daphnia - Daphnia magna	48 hours	
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours	
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours	
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#### **SECTION 12: Ecological information** Chronic LC10 781 mg/l Fresh water Crustaceans - Hyalella azteca -3 weeks Juvenile (Fledgling, Hatchling, Weanling) Chronic NOEC 6 g/L Fresh water Aquatic plants - Lemna minor 96 hours Chronic NOEC 0.314 g/L Fresh water Daphnia - Daphnia pulex 21 davs Fish - Gambusia holbrooki -Chronic NOEC 100 mg/l Fresh water 8 weeks Adult Acute LC50 3580000 µg/l Fresh water disodium Daphnia - Daphnia magna 48 hours hydrogenorthophosphate

**Conclusion/Summary** : Not available.

#### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
disodium hydrogenorthophosphate	-5.8	-	low

#### 12.4 Mobility in soil

Soil/water partition coefficient (K <sub>oc</sub> )	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment		
PBT	: Not applicable.	
vPvB	: Not applicable.	

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

13.1 Waste treatment metho <u>Product</u>	ds
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.
Packaging	

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## **SECTION 13: Disposal considerations**

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	ΙΑΤΑ
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

user

**14.6 Special precautions for** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

## **SECTION 15: Regulatory information**

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

None of the components are listed.

Substances of very high concern

None of the components are listed.

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## **SECTION 15: Regulatory information**

SECTION 15: Regulatory information
Annex XVII - Restrictions       : Not applicable.         on the manufacture,
Other EU regulations
Europe inventory       : All components are listed or exempted.         Ozone depleting substances (1005/2009/EU)         Not listed.
Prior Informed Consent (PIC) (649/2012/EU) Not listed.
Seveso Directive This product is not controlled under the Seveso Directive. International regulations Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.
<u>Montreal Protocol (Annexes A, B, C, E)</u> Not listed.
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.
<b>15.2 Chemical safety</b> <b>assessment</b> : This product contains substances for which Chemical Safety Assessments are still required.

**15.3 Registration status** : Mixture. Information concerning the substance : Contact local supplier or distributor.

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

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## **SECTION 16: Other information**

Abbreviations and acronyms	: 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 PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number
Key literature references and sources for data	<ul> <li>vPvB = Very Persistent and Very Bioaccumulative</li> <li>Regulation (EC) No. 1272/2008 [CLP]; European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), concluded in Geneva on 30 September 1957 plus amendments (Uniform text: Journal of Laws 27/2009 pos. 162 plus amendments); Regulation for the transport of dangerous materials on the Rhine (ADN); Occupational exposure limits; International regulations</li> </ul>

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

Classification	Justification
Eye Irrit. 2, H319	Calculation method

#### Full text of abbreviated H statements

H319		Causes serious eye irritation.
Full text of classifications	[CLP/GHS]	
Eye Irrit. 2, H319		SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Training advice	: Ensure operatives are trained to minimise exposures. Training staff on good practice	
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Notice to reader		

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its 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 materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.