

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

Designation / Trade name: cRaf Total Kit - Control Lysate 64CRAFTTDA

Version: US, Page 1 of 15, Revision date: 11/09/2023

## SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier:

**Designation / Trade name: cRaf Total Kit - Control Lysate 64CRAFTTDA**

CAS No.:

Index No:

EC No:

REACH No:

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

Relevant identified uses: Use of the substance or mixture for Laboratory Research use only ;

Uses advised against: Do not use for diagnostics, therapeutics or other clinical uses. ;

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

#### Supplier:

Name: CISBIO BIOASSAYS, company of Revvity Group - CBBIOA -

Address: Parc Marcel Boiteux - BP 84175 - 30200 Codolet, France

Phone : +33 4 66 79 67 05 - Fax : +33 4 66 79 67 50

E-Mail (competent person):  codolet.sds@revvity.com

### 1.4 EMERGENCY TELEPHONE NUMBER:

France - Numéro ORFILA (INRS) : + 33 (0)1 45 42 59 59

Ce numéro permet d'obtenir les coordonnées de tous les centres Anti-poison Français. Ces centres anti-poison et de toxicovigilance fournissent une aide médicale gratuite (hors coût d'appel), 24 heures sur 24 et 7 jours sur 7.

USA & Canada - Phone: 1-888-963-456 (1)

Other countries - Phone: +33 (0) 466 796 737 (2)

<https://www.cisbio.com>

<https://www.revvity.com>

(1) Available from Monday to Thursday 8:30 am to 5:30pm GMT-5 and Friday: 8:30 am to 3:00pm GMT-5

(2) Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

## SECTION 2 : HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture:

Classification in accordance with 29 CFR 1910 (OSHA HCS)	Category code	Hazard statement	Precautionary statement
Hazardous to the aquatic environment - Aquatic Chronic 2 - H411	Aquatic Chronic 2	H411	P273 P391 P501
Serious eye damage/eye irritation - Eye Dam. 1 - H318	Eye Dam. 1	H318	P280 P305 + P351 + P338 P310

### 2.2 Label elements

Labelling according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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Substances contained in this product:

Substance name	CAS n°	Index n°	EC n°
Poly (oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0		500-315-8
trisodium tetraoxovanadate	13721-39-6		237-287-9
Ethylenediamine-N,N,N1,N1-tetraacetic acid	6381-92-6		
Poly(oxy-1,2-ethanediyl), $\alpha$ -[4-(1,1,3,3-tetramethylbutyl)phenyl]- $\omega$ -hydroxy-	9002-93-1		

#### Hazard pictograms

GHS05-acid

GHS09-pollut



#### Signal word:

Danger

#### Hazard and precautionary statements:

Code	Hazard statments
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/...
P391	Collect spillage.
P501	Dispose of contents/container to ...

### 2.3 Other hazards

The mixture contains substances classified as 'Substances of Very High Concern' (SVHC) published by the European Chemicals Agency (ECHA) under article 57 of REACH at levels of 0.1% or higher. This substance or mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher ;

Adverse human health effects:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

#### Hazardous ingredients:

Substance name	CAS n°	Index n°	EC n°	Classification in accordance with 29 CFR 1910 (OSHA HCS)	Concentration (%)	SCL	M-factor
Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]- ω-hydroxy-	9002-93-1			Acute toxicity - Acute Tox. 4 - H302 - Oral Hazardous to the aquatic environment - Aquatic Acute 1 - H400 Hazardous to the aquatic environment - Aquatic Chronic 1 - H410 Serious eye damage/eye irritation - Eye Dam. 1 - H318 Skin corrosion/irritation - Skin Irrit. 2 - H315	< 10%		
Poly (oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)- omega-hydroxy-, branched	127087-87-0		500-315-8	Acute toxicity - Acute Tox. 4 - H302 - Oral Acute toxicity - Acute Tox. 4 - H332 - Inhalation Hazardous to the aquatic environment - Aquatic Chronic 2 - H411 Serious eye damage/eye irritation - Eye Dam. 1 - H318	< 10%		1
sodium chloride	7647-14-5		231-598-3		< 10%		
ethanol	64-17-5	603-002-00-5	200-578-6	Flammable liquid - Flam. Liq. 2 - H225	< 1%		
Ethylenediamine- N,N,N1,N1-tetraacetic acid	6381-92-6			Acute toxicity - Acute Tox. 4 - H332 - Inhalation Specific target organ toxicity - repeated exposure - STOT RE 2 - H373	< 1%		
trisodium tetraoxovanadate	13721-39-6		237-287-9	Acute toxicity - Acute Tox. 4 - H302 - Oral Acute toxicity - Acute Tox. 4 - H312 - Dermal Acute toxicity - Acute Tox. 4 - H332 - Inhalation Serious eye damage/eye irritation - Eye Irrit. 2 - H319 Skin corrosion/irritation - Skin Irrit. 2 - H315	< 1%		

#### Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

## SECTION 4 : FIRST AID MEASURES

### 4.1 Description of first aid measures

**General information:** Do not leave affected person unattended. ;

**Following inhalation:** In case of respiratory tract irritation, consult a physician. ;

**Following skin contact:** After contact with skin, wash immediately with water ;

**Following eye contact:** After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. ;

**Following ingestion:** Do NOT induce vomiting. ;

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#### Self-protection of the first aider:

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

Symptoms: No known symptoms to date. ;

Effects:

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

Notes for the doctor:

## SECTION 5 : FIREFIGHTING MEASURES

#### 5.1 *Extinguishing media:*

Suitable extinguishing media: This product is not flammable. Use extinguishing agent suitable for type of surrounding fire ;

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

Hazardous combustion products: /

#### 5.3 *Advice for fire-fighters*

Wear Protective clothing. ;

Additional information:

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

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

Emergency procedures: Provide adequate ventilation. ;

#### 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: Suitable material for taking up: Absorbing material, organic ;

Other information:

#### 6.4 *Reference to other sections*

Additional information:

## SECTION 7 : HANDLING AND STORAGE

#### 7.1 *Precautions for safe handling*

##### Protective measures:

Advice on safe handling: Avoid contact with skin, eyes and clothes. ;

Fire preventions:

Do not eat, drink or smoke in areas where reagents are handled. ;

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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Advice on general occupational hygiene : Handle in accordance with good industrial hygiene and safety practice ;

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

Requirements for storage rooms and vessels: Keep container tightly closed. ;

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

**7.3 Specific end uses:**

Recommendations on specific end uses: Observe technical data sheet. ;

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

Preliminary remark:

8.1.1 Occupational exposure limits:

- OSHA (USA)

Source : Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs) from 29 CFR 1910.1000						
Substance	EC-No.	CAS-No	OSHA Permissible Exposure Limit (PEL) 8-hour TWA (ppm)	OSHA Permissible Exposure Limit (PEL) 8-hour TWA (mg/m3)	OSHA Permissible Exposure Limit (PEL) STEL (ppm)	OSHA Permissible Exposure Limit (PEL) STEL (mg/m3)
13472-36-1		13472-36-1				
13721-39-6 / 237-287-9	237-287-9	13721-39-6				0,05
6381-92-6		6381-92-6				
64-17-5 / 200-578-6	200-578-6	64-17-5	1000	1900		
68412-54-4 / 500-209-1	500-209-1	68412-54-4				
7647-14-5 / 231-598-3	231-598-3	7647-14-5				

Source : TRGS 903, November 2015, BAuA				
Substance	EC-No.	CAS-No	BGW (mg/m3)	BGW (ppm)
13472-36-1		13472-36-1		
13721-39-6 / 237-287-9	237-287-9	13721-39-6		
6381-92-6		6381-92-6		
64-17-5 / 200-578-6	200-578-6	64-17-5		
68412-54-4 / 500-209-1	500-209-1	68412-54-4		
7647-14-5 / 231-598-3	231-598-3	7647-14-5		



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6381-92-6		6381-92-6																	
64-17-5 / 200-578-6	200-578-6	64-17-5																	
68412-54-4 / 500-209-1	500-209-1	68412-54-4																	
7647-14-5 / 231-598-3	231-598-3	7647-14-5																	

Source :		INERIS																		
Substance	EC-No.	CAS-No	Others																	
			PNEC soil			PNEC sewage treatment plant			PNEC air			PNEC secondary poisoning								
			(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)						
13472-36-1		13472-36-1																		
13721-39-6 / 237-287-9	237-287-9	13721-39-6																		
6381-92-6		6381-92-6																		
64-17-5 / 200-578-6	200-578-6	64-17-5																		
68412-54-4 / 500-209-1	500-209-1	68412-54-4																		
7647-14-5 / 231-598-3	231-598-3	7647-14-5																		

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7

### 8.2.2 Personal protective equipment:

Eye / Face protection: Safety glasses with side-shields ;

Skin protection:Gloves ;

Respiratory protection:Ensure adequate ventilation ;

Thermal hazards:

### 8.2.3 Environmental exposure controls:

Consumer exposure control

Measures related to consumer uses of the substance (as such or in mixtures):

Measures related to the service life of the substance in articles:

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state	Liquid ;
Colour	Colorless ;

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Odour	
Odour threshold (ppm)	

	Value	Concentration (mol/L)	Method	Temperature (°C)	Pressure (kPa)	Remark
pH						
Melting point (°C)						
Freezing point (°C)						
Initial boiling point/boiling range (°C)						
Flash point (°C)						
Evaporation rate (kg/m <sup>2</sup> /h)						
Flammability (type : ) (%)						
Upper/lower flammability or explosive limits	Upper explosive limit (%)					
	Lower explosive limit (%)					
Vapour pressure (kPa)						
Vapour density (g/cm <sup>3</sup> )						
Densities	Density (g/cm <sup>3</sup> )					
	Relative density (g/cm <sup>3</sup> )					
	Bulk density (g/cm <sup>3</sup> )					
	Critical density (g/cm <sup>3</sup> )					
Solubility (Type : ) (g/L)						
Partition coefficient (log Pow) n-octanol/water at pH :						
Auto-ignition temperature (°C)						
Decomposition temperature (°C) Decomposition energy : kJ						
Viscosity	Viscosity, dynamic (poiseuille)					
	Viscosity, cinematic (cm <sup>2</sup> /s)					
Explosive properties						
Oxidising properties						

## 9.2 Other information:

No other relevant data available

## SECTION 10 : STABILITY AND REACTIVITY

### 10.1 Reactivity

This material is considered to be non-reactive under normal use conditions. ;

### 10.2 Chemical stability

### 10.3 Possibility of hazardous reactions

### 10.4 Conditions to avoid:

### 10.5 Incompatible materials:

### 10.6 Hazardous decomposition products:

Does not decompose when used for intended uses. ;



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## SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

### 11.1 Information on toxicological effects

#### Substances

- **Acute toxicity**

#### Animal data:

Acute oral toxicity:

Substance name	LD50 (mg/kg)	Species	Method	Symptoms / delayed effects	Remark
127087-87-0 / 500-315-8					Data lacking.
9002-93-1	1800-1800	Rat			

Acute dermal toxicity:

Acute inhalative toxicity:

Substance name	C(E)L50 (mg/L)	Exposure time	Species	Method	Remark
127087-87-0 / 500-315-8					

Practical experience / human evidence:

Assessment / Classification:

General Remark:

- **Skin corrosion/irritation**

#### Animal data:

Substance name	Species	Method	Exposure time	Result/evaluation	Score	Remark
9002-93-1						

In-vitro skin test method:

In-vitro skin test result:

Assessment / Classification:

- **Eye damage/irritation**

#### Animal data:

Substance name	Species	Method	Exposure time	Result/evaluation	Score	Remark
127087-87-0 / 500-						

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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315-8					
9002-93-1	Rabbit		Eye irritation		

In vitro eye test method:

In vitro eye test result:

Assessment / Classification:

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
  - Germ cell mutagenicity:

Animal data:

Assessment / Classification:

- Carcinogenicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

- Reproductive toxicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

Overall assessment on CMR properties:

- **Specific target organ toxicity (single exposure)**
  - STOT SE 1 and 2

Animal data:

Other information:

- STOT SE 3

Practical experience / human evidence:

Other information:

Assessment / Classification:

- **Specific target organ toxicity (repeated exposure)**

Practical experience / human evidence:

Animal data:

Assessment / Classification:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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Other information

- **Aspiration hazard**

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

11.1.1 Mixtures

No toxicological information is available for the mixture itself

**SECTION 12 : ECOLOGICAL INFORMATION**

In case that test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for mixture classification has to be used (calculation method) in this case the toxicological data of the ingredients are shown.

**12.1 Aquatic toxicity:**

Acute (short-term) fish toxicity

Source : Informations relatives à la réglementation VME (France) : ED 984, 07.2012										
Substance	EC-No.	CAS-No	LC50 (mg/L)	EC50 (mg/L)	Test duration	Species	Result/Evaluation	Method	Remark	General Remark
127087-87-0 / 500-315-8	500-315-8	127087-87-0								
9002-93-1		9002-93-1	8,9		96	Pimephales promelas (fathead minnow)				

Chronic (long-term) fish toxicity

Source : Informations relatives à la réglementation VME (France) : ED 984, 07.2012										
Substance	EC-No.	CAS-No	NOEC (mg/L)	Test duration	Species	Method	Remark	General Remark		
127087-87-0 / 500-315-8	500-315-8	127087-87-0								
9002-93-1		9002-93-1								

Acute (short-term) toxicity to crustacea

Source : Informations relatives à la réglementation VME (France) : ED 984, 07.2012										
Substance	EC-No.	CAS-No	EC50 (mg/L)	Test duration	Species	Result/Evaluation	Method	Remark	General Remark	
127087-87-0 / 500-315-8	500-315-8	127087-87-0								
9002-93-1		9002-93-1	26	48						

Chronic (long-term) toxicity to crustacea

Source : Informations relatives à la réglementation VME (France) : ED 984, 07.2012										
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Substance	EC-No.	CAS-No	NOEC (mg/L)	Test duration	Species	Method	Remark	General Remark
127087-87-0 / 500-315-8	500-315-8	127087-87-0						
9002-93-1		9002-93-1						

Acute (short-term) toxicity to algae and cyanobacteria

Source : Informations relatives à la réglementation VME (France) : ED 984, 07.2012									
Substance	EC-No.	CAS-No	EC50 (mg/L)	Test duration	Species	Result/Evaluation	Method	Remark	General Remark
127087-87-0 / 500-315-8	500-315-8	127087-87-0							
9002-93-1		9002-93-1							

Toxicity to microorganisms and other aquatic plants / organisms

Source : Informations relatives à la réglementation VME (France) : ED 984, 07.2012									
Substance	EC-No.	CAS-No	EC50 (mg/L)	Species	Method	Remark	General Remark		
127087-87-0 / 500-315-8	500-315-8	127087-87-0							
9002-93-1		9002-93-1							

Assessment / Classification:

**12.2 Persistence and degradability**

Biodegradation:

Source : Informations relatives à la réglementation VME (France) : ED 984, 07.2012							
Substance	EC-No.	CAS-No	Inoculum	Biodegradation parameter	Degradation rate (%)	Method	Remark
127087-87-0 / 500-315-8	500-315-8	127087-87-0					
9002-93-1		9002-93-1		BOD (% of COD).	36-36		In accordance with the required stability the product is poorly biodegradable.

Abiotic Degradation:

Source :								
Substance	EC-No.	CAS-No	Abiotic degradation test type	Half-life time (j)	Temperature (°C)	pH	Method	Remark
127087-87-0 / 500-315-8	500-315-8	127087-87-0						
9002-93-1		9002-93-1						

Assessment / Classification:

**12.3 Bioaccumulative potential**

Bioconcentration factor (BCF):

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Source :						
Substance	EC-No.	CAS-No	Species	Result	Method	Remark
127087-87-0 / 500-315-8	500-315-8	127087-87-0				
9002-93-1		9002-93-1				

#### 12.4 Mobility in soil

Source :											
Substance	EC n°	CAS n°	Distribution	Transport type	Henry's law constant (Pa.m3/mol)	Log KOC	Half-life time in soil (j)	Half-life time in fresh water (j)	Half-life time in sea water (j)	Method	Remark
127087-87-0 / 500-315-8	500-315-8	127087-87-0									
9002-93-1		9002-93-1									

#### 12.5 Results of PBT and vPvB assessment

#### 12.6 Other adverse effects:

Additional ecotoxicological information:

### SECTION 13 : DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Waste treatment options:

Dispose of waste according to applicable legislation. ;

Other disposal recommendations:

Additional information:

### SECTION 14 : TRANSPORT INFORMATION

ADR/RID/AND/IMDG/IATA

UN No.	
UN Proper shipping name	
Transport hazard class(es)	
Hazard label(s)	
Packing group	

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Land transport (ADR/RID)

Classification code ADR:

Special Provisions for ADR/RID:

Limited quantities for ADR/RID:

Excepted Quantities for ADR/RID:

Packing Instructions for ADR/RID:

Special packing provisions for ADR/RID:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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Mixed packing provisions: Portable tanks and bulk containers Instructions:  
 Portable tanks and bulk containers Special Provisions:  
 ADR Tank Code: ADR Tank special provisions:  
 Vehicle for tank carriage: Special provisions for carriage Packages:  
 Special provisions for carriage Bulk:  
 Special provisions for carriage for loading, unloading and handling:  
 Special Provisions for carriage Operation:  
 Hazard identification No: Transport category (Tunnel restriction code):

#### Sea transport (IMDG)

Marine Pollutant: Subsidiary risk(s) for IMDG:  
 Packing provisions for IMDG: Limited quantities for IMDG:  
 Packing instructions for IMDG: IBC Instructions:  
 IBC Provisions: IMO tank instructions:  
 UN tank instructions: Tanks and bulk Provisions:  
 EmS : Stowage and segregation for IMDG:  
 Properties and observations:

#### Inland waterway transport (ADN)

Classification Code ADN: Special Provisions ADN:  
 Limited quantities ADN: Excepted quantities ADN:  
 Carriage permitted: Equipment required:  
 Provisions concerning loading and unloading:  
 Provisions concerning carriage: Number of blue cones/lights:  
 Remark:

#### Air transport (ICAO-TI / IATA-DGR)

Subsidiary risk for IATA: Excepted quantity for IATA:  
 Passenger and Cargo Aircraft Limited Quantities Packing Instructions:  
 Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity :  
 Passenger and Cargo Aircraft Packaging Instructions :  
 Passenger and Cargo Aircraft Maximal Net Quantity :  
 Cargo Aircraft only Packaging Instructions :  
 Cargo Aircraft only Maximal Net Quantity :  
 ERG code: Special Provisions for IATA:

## SECTION 15 : REGULATORY INFORMATION

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

### **15.2 Chemical Safety Assessment:**

For the following substances of this mixture a chemical safety assessment has been carried out :

## SECTION 16 : OTHER INFORMATION

### **16.1 Indication of changes**

Date of the previous version:07/09/2023

Modifications:

according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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#### 16.2 Abbreviations and acronyms:

#### 16.3 Key literature references and sources for data

#### 16.4 Classification for mixtures and used evaluation method according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g)):

See SECTION 2.1 (classification).

#### 16.5 Relevant R-, H- and EUH-phrases (number and full text):

Code	Hazard statements
H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage.
H319	Causes serious eye irritation
H332	Harmful if inhaled
H373	May cause damage to organs ( state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
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