



## UNIPRED

Code: 0 618 0

*Material Safety Data Sheet compliant with Regulation (EC) 1907/2006, Annex II, amended by Regulation (EC) 453/2010*

Version 5.0.0

Revision: 31/03/15

Print Date : 02/04/15

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

#### 1.1. Product identifier

Trade name **UNIPRED**

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

Use of the product

**LIQUID ACID  
HYGIENE AND SANITIZING OF MILKING EQUIPMENTS IN SINGLE PHASE  
CLEANING**

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

Company identification

**Manufacturer: HYPRED S.A.  
57, Boulevard Jules VERGER B.P. 10180  
35803 DINARD CEDEX - FRANCE  
Tél : 33 2 99 16 50 00  
Fax : 33 2 99 16 50 20  
e-mail : hypred@hypred.fr**

For information regarding this safety data sheet, please contact :  
hypred.regulatory@roullier.com

#### 1.4. Emergency telephone number

Emergency phone number

**Emergency direct number ( 24 hours a day, 7 days a week ) : (+)1-760-476-3961  
Access code : 333021**

**Call your medical practitioner LONDON (Information available at the National  
Poison Unit - Guy's Hospital)**

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation 1272/2008/EC:

The mixture meets the classification criteria provided for under Regulation (EC) No 1272/2008.

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	EUH 208: Contains Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium). May produce an allergic reaction.
Skin corrosion - Category 1B	H314: Causes severe skin burns and eye damage.
Chronic toxicity to the aquatic environment - Category 2	H411: Toxic to aquatic life with long lasting effects.
Substance corrosive to metals - Category 1	H290: May be corrosive to metals.

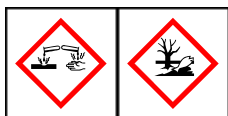
**Classification according to Directive 1999/45/EEC:**

The mixture meets the classification criteria provided for under Directive 1999/45/EEC.

C : CORROSIVE, N : DANGEROUS FOR THE ENVIRONMENT

R34 : Causes burns.

R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**2.2. Label elements****Labelling according to 1272/2008/EC Regulation:****Hazard pictograms(s) :****Signal word :**

Danger

**Hazard statement(s) :**

H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

H411: Toxic to aquatic life with long lasting effects.

EUH 208: Contains Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium). May produce an allergic reaction.

**Precautionary statement(s) :**

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 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 or doctor/physician.  
 P391: Collect spillage.  
 P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 2.3. Other hazards

No additional information available.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable as this involves a mixture.

#### 3.2. Mixtures

Chemical nature of the mixture : LIQUID ACID

Substance(s)	CAS number (s)	EINECS number(s)	No registration REACH	Classification according to 67/548/EEC or 1999/45/EC	Classification according to Regulation 1272/2008/EC	Type
50% <= Phosphoric Acid < 70%	7664-38-2	231-633-2	01-2119485924-24	C , R34	Skin Corr. 1B H314 Met. Corr. 1 H290	(1) (2)
1% <= Alcohols in C8-C10, ethoxylates and propoxylates <= 5%	68603-25-8			Xn , R22 R41	Acute Tox. 4 (oral) H302 Eye Dam. 1 H318	(1)
0.25% <= Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium) < 1%	27083-27-8		Biocidal active substance, regarded as already registered	N T , R22 R23 R40 R41 R43 R48/23 R50/53	Acute Tox. 4 (oral) H302 Acute Tox. 2 (inhalation) H330 Eye Dam. 1 H318 Skin Sens. 1 H317 STOT RE 1 H372 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 Carc. 2 H351 M Factor (Acute) 10 M Factor (Chronic) 10	(1)

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### Type

- (1) : Substance classified as hazardous for health and/or the environment
- (2) : Substance with an exposure limit at the work station.
- Substance of very high concern candidate for the authorisation procedure:
- (3) : Substance considered as PBT (persistent, bioaccumulable, toxic)
- (4) : Substance considered as vPvB (very persistent, very bioaccumulable)
- (5) : Substance considered as carcinogenic category 1A
- (6) : Substance considered as carcinogenic category 1B
- (7) : Substance considered as mutagenic category 1A
- (8) : Substance considered as mutagenic category 1B
- (9) : Substance considered as reprotoxic category 1A
- (10) : Substance considered as reprotoxic category 1B
- (11) : Substance considered as endocrine disrupter

Full text of R-, H- and EUH- phrases see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General indications:

Take the contaminated clothes and shoes off immediately. Wash them before wearing them again.  
In case of faintness , get medical advice/attention. Show this safety data sheet to the doctor.

#### In the event of inhalation :

Bring to fresh air.  
Put into practice respiratory help procedure if needed and get medical advice immediately.

#### In the event of contact with the skin :

Take off immediately all contaminated clothing.  
Wash immediately with plenty of water for 15 minutes at least.  
Immediately call a POISON CENTER or doctor/physician.

#### In the event of contact with the eyes :

Rinse at once with a soft stream of water for at least 15 minutes, eyes wide open.  
Remove contact lenses if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor/physician.

#### In the event of ingestion :

Rinse mouth.  
Do NOT induce vomiting.  
Send to hospital.

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

**Skin contact** : Corrosive : Causes severe burns.

**Eye contact** : Causes serious eye damage.

**Ingestion** : Causes severe burns in mouth and digestive tract.

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Can cause severe damage to the stomach or oesophagus.

**Inhalation** : May cause a respiratory system irritation.

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

**Treatments** : Symptomatic treatment

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media :**

Pulverized water.

Foam, powder, carbon dioxide.

Agents compatible with other products involved into fire.

**Unsuitable extinguishing media :**

High pressure water jet

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

UNIPRED is non-flammable.

However, in contact with certain metals (aluminium, zinc, copper...), release of hydrogen whose mixtures with air are explosive.

### 5.3. Advice for firefighters

Wear independent respiratory equipment and protective suit.

Collect contaminated firefighting water separately, must not be discharged into the drains.

Keep containers cool by spraying with water if exposed to fire.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel :

Evacuate non-essential staff and those not equipped with individual protection apparatus.

#### 6.1.2. For emergency responders :

Evacuate the personnel to a safe location.

Keep people upwind and away from the location of the flow/leak.

Use personal protection equipment.

### 6.2. Environmental precautions

Intervention limited to trained staff.

Do not discharge the product directly to sewer or to environment.

Take as soon as possible all incompatible materials away.

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

#### Small spillage :

Pump in a reservoir of help.

#### Large spillage :

Mark out, dyke up with an inert absorbant and pump in an emergency tank.

Never return spills in original containers for re-use.

Keep in suitable, properly labelled and closed containers for disposal.

### 6.4. Reference to other sections

Respect protective measures presented at heading 8.

Refer to section 13 for the elimination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Do not breathe vapour.

Avoid contact with skin, eyes and clothing.

Do not eat, drink or smoke in work area. Avoid projections during use.

Take off immediately all contaminated clothing.

Do not mix with a chlorinated alkaline product.

Do not mix with an alkali.

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

#### 7.2.1. Storage :

Keep only in the original container.

Keep away from incompatible matters (see heading 10).

Keep container closed.

Keep in a cool place.

Keep away from products sensitive to acids.

Do not store below the point of freezing.

#### 7.2.2. Packaging or wrapping materials :

High density polyethylene recommended.

### 7.3. Specific end use(s)

UNIPRED is for use as a biocide.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit values :

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Substance	Country	Type	Value	Unit	Comments	source
Phosphoric Acid	GBR	OEL 8h	1	mg/m <sup>3</sup>		International limit values for chemical agents
		OEL Short term	2	mg/m <sup>3</sup>		International limit values for chemical agents

### 8.2. Exposure controls

Directive 98/24/EEC requires the employer to introduce risk management measures. If restricted or indicative regulatory limit values have been set for substances in section 8.1, the employer must act on the outcome of his chemical risk assessment by checking the professional exposure limit values for their compliance.

#### 8.2.1. Appropriate engineering controls :

Ensure adequate ventilation.

Apply the necessary technical measures to comply with the professional exposure limit values.

#### 8.2.2. Individual protection measures, such as personal protective equipment :

##### Eye/face protection :

Use safety glasses or facial screen in conformity with the EN 166 standard.



##### Hand protection :

Use chemical resistant gloves approved to EN 374.

Examples of preferred materials for insulating gloves:

Butyl rubber.

Nitril.

Neoprene.

Do not wear polyvinyl alcohol (PVA) gloves.



##### Skin protection :

Wear boots and a protective cloth with chemical resistance.



##### Respiratory protection :

None under normal conditions of use.

##### Thermal hazards :

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Not applicable

### Health measures :

Safety shower and eye wash fountain near to workplace.

After using, wash systematically all personal protective equipment.

### 8.2.3. Environmental exposure controls :

Do not discharge the product directly to sewer or to environment.

## SECTION 9: Physical and chemical properties

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

Appearance	Clear liquid
Colour	Colourless
Odour	Odourless
Odour threshold	Non available
Pure pH	Non available
pH value at 10g/l	1.9±0.2
Freezing point :	-25 °C
Boiling point	> 100 °C
Flash point	Not applicable
Evaporation rate:	Non available
Flammability	Not applicable
Vapour pressure	Non available
Vapour density	Non available
Mass density	1.408±0.013 g/cm <sup>3</sup>
Relative density	1.408±0.013
Solubility in water	Soluble in water in all proportions
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Viscosity	Non available
Explosive properties	Not applicable
Oxidising properties	Not applicable

### 9.2. Other information

No additional information.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None under normal conditions of use.

### 10.2. Chemical stability



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Stable in the recommended storage and handling conditions.

### 10.3. Possibility of hazardous reactions

Exothermic reactions with alkalis.

### 10.4. Conditions to avoid

None to our knowledge.

### 10.5. Incompatible materials

Alkalines.  
Chlorinated alkalis.  
Certain metals.

### 10.6. Hazardous decomposition products

In contact with certain metals (aluminium, zinc, copper...), release of hydrogen whose mixtures with air are explosive.

These data are given for the concentrated mixture. The use of the mixture under its diluted form must be performed in conformity with data given by the technical data sheet and the technical adviser.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### **Substance-related data:**

##### Acute toxicity

Phosphoric Acid : LC 50 - inhalation - 1h rat 3.846 mg/L. - MSDS supplier

Phosphoric Acid : LD 50 - dermal rabbit 2,740 mg/kg. - MSDS supplier

Phosphoric Acid ( 75 % ) : LD 50 - oral rat 2,600 mg/kg. - MSDS supplier

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium) : LD 50 - oral rat 500 - 1,000 mg/kg. - MSDS supplier

Alcohols in C8-C10, ethoxylates and propoxylates + : LD 50 - oral female rat 616 mg/kg. - MSDS supplier

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium) : LC 50 - inhalation rat 0.29 mg/L. - aerosol - MSDS supplier

##### Skin corrosion/irritation

Phosphoric Acid ( 75% ) : Skin irritation . Corrosive. - MSDS supplier

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium) ( 20% ) : Skin irritation . Irritating - MSDS supplier

##### Serious eye damage/eye irritation

Phosphoric Acid ( 75% ) : Eye irritation rabbit . Corrosive. - MSDS supplier

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium) : Eye irritation . Risk of serious damage of eyes - MSDS supplier

Alcohols in C8-C10, ethoxylates and propoxylates : Eye irritation . Risk of serious damage of eyes - MSDS supplier

##### Respiratory or skin sensitisation

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium) ( 20% ) : Skin sensitisation . Can induce sensitization - MSDS supplier

##### Carcinogenicity

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Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium) : laboratory animals . Not carcinogenic - MSDS supplier

### CHRONIC TOXICITY

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium) : NOEC algae 0.008 mg/L. - MSDS supplier

### **Mix-related data :**

Acute toxicity  
. Not determined

Skin corrosion/irritation  
Skin corrosivity . The mixture should be considered as corrosive because of its extreme pH.

Serious eye damage/eye irritation  
Ocular corrosivity . Causes serious eye damage according to the criteria of Regulation 1272/2008/EC.

Respiratory or skin sensitisation  
Skin sensitisation . The mixture is not considered as a skin sensitizer according to 1272/2008/EC Regulation.  
Respiratory sensitization . The mixture is not considered as a respiratory sensitizer according to 1272/2008/EC Regulation.

Mutagenicity  
. The classification criteria are not met given the available data.

Carcinogenicity  
. The classification criteria are not met given the available data.

Reproductive toxicity  
. The classification criteria are not met given the available data.

Specific target organ toxicity - single exposure  
. The classification criteria are not met given the available data.

Specific target organ toxicity - repeated exposure  
. The classification criteria are not met given the available data.

Aspiration hazard  
. The classification criteria are not met given the available data.

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

**Skin contact** : Corrosive : Causes severe burns.

**Eye contact** : Causes serious eye damage.

**Ingestion** : Causes severe burns in mouth and digestive tract.  
Can cause severe damage to the stomach or oesophagus.

**Inhalation** : May cause a respiratory system irritation.

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### SECTION 12: Ecological information

#### 12.1. à 12.4. Toxicity - Persistence and degradability - Bioaccumulative potential - Mobility in soil

##### **Substance-related data:**

###### Acute toxicity

Phosphoric Acid : LC 50 - 96h fishes 3 - 3.25 mg/L. - MSDS supplier

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthyle)-guanylguanidinium) : LC 50 - 96h fishes (Oncorhynchus mykiss) 0.026 mg/L. - MSDS supplier

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthyle)-guanylguanidinium) : EC 50 - 48h daphnia (Daphnia magna) (OCDE 202): 0.09 mg/L. - MSDS supplier

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthyle)-guanylguanidinium) : EC 50 - 72H algae (Pseudokirschnerella subcapitata) (OCDE 201): 0.019,1 mg/L. - MSDS supplier

Alcohols in C8-C10, ethoxylates and propoxylates : IC 50 - 16h bacterias 220 - 770 mg/L. - MSDS supplier

Alcohols in C8-C10, ethoxylates and propoxylates : LC 50 - 96h fishes (Pimephales promelas) 13.3 mg/L. - MSDS supplier

Alcohols in C8-C10, ethoxylates and propoxylates : EC 50 - 48h daphnia (Daphnia magna) 12.3 mg/L. - MSDS supplier

Phosphoric Acid : EC 50 - 72H algae (OCDE 201): > 100 mg/L.

Phosphoric Acid : EC 50 - 48h daphnia (OCDE 202): > 100 mg/L. - MSDS supplier

###### Degradability

Alcohols in C8-C10, ethoxylates and propoxylates : Biodegradability - 28days (OCDE 301 F): > 70 %. Easily biodegradable. - MSDS supplier

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthyle)-guanylguanidinium) : . Difficult to biodegrade - MSDS supplier

###### Bioaccumulation

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthyle)-guanylguanidinium) : . Not bioaccumulative - MSDS supplier

##### **Mix-related data: :**

###### Acute toxicity

fishes . Not determined

daphnia . Not determined

algae . Not determined

###### CHRONIC TOXICITY

. No data available.

###### Degradability

. The surface agents contained in this mix are in line with the requirements of the Detergent Regulation 648/2004/EC.

###### Bioaccumulation

. No data available.

###### Mobility

. No data available.

##### **Conclusion :**

The mixture is considered to be dangerous for the environment according to 1272/2008/EC Regulation.

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

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

### 12.6. Other adverse effects

No additional information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Treatment of the mixture :

Do not discharge the product directly to sewer or to environment.

Comply with Directive 2008/98/EC of 19/11/2008 relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2001/119/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

#### Packaging treatment :

Rinse thoroughly the packaging with water and treat the effluent like wastes.

Comply with Directive 2008/98/EC of 19/11/2008 relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2001/119/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

## SECTION 14: Transport information

### ROAD TRANSPORT:

*Rail/Route (RID/ADR)*

**UN no :** 1805

**UN proper shipping name :** PHOSPHORIC ACID IN SOLUTION (Phosphoric Acid+Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium))

**Class :** 8

**Packing group :** III

**Hazard code :** 80

**Label :** 8



**Tunnel code :** E

**Environmental hazard :** Yes (Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium))

**Special precautions for user :** No information.

### MARITIME TRANSPORT :

*IMDG*

**UN no :** 1805

**UN proper shipping name :** PHOSPHORIC ACID IN SOLUTION (Phosphoric Acid+Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium))

**Class :** 8

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**Packing group** : III

**Marine pollutant** : Yes (Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium))

**Special precautions for user** : No information.

**EmS number** : F-A, S-B

Comply with the provisions of the IMDG on the physical separation of materials.

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

Not concerned

### SECTION 15: Regulatory information

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

**Regulations relating to the hazards from major accidents :**

Directive 96/82/EC amended by Directive SEVESO 2 (2003/15/EC)

**Regulations relating to the classification, packing and labelling of substances and mixes :**

Regulation 1272/2008/EC amended, Directive 1999/45/EC amended.

**Waste regulations :**

Directive 2008/98/EC of 19/11/2008 relating to waste.

Decision 2000/532/EC amended which establishes the list of hazardous waste.

**Protection of workers :**

Directive 98/24/EC of 07/04/1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Regulation 850/2004/EC on persistent organic pollutants and modifying Directive 79/117/EC :** Not concerned

**Regulation 2037/2000/EC on substances that deplete the ozone layer :** Not concerned

**Regulation (EC) 648/2004 :**

In conformity with the regulation in force on detergents: Regulation (EC) N° 648/2004.

Ingredient datasheet for the medical staff is available upon written request.

Contains :

>30% Phosphates

< 5% Non-ionic surfactants

Disinfectants

#### 15.2. Chemical safety assessment

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No

### SECTION 16: Other information

The safety data sheet is additional to the technical data sheet but does not replace it. The information given here in is to the best of our knowledge correct and is given in good faith. We must also draw the user's attention on potential risks of the product is used for other purposes for which the product is known.

In no way does it exempt users from being aware of and complying with regulations applicable to their activity. It is their sole responsibility to take all necessary precautions in accordance to the usage of the product they are aware of.

Regulations are only stated in order to help users fulfill the duties involved in the use of the product.

This description should not be considered as exhaustive. It does not exempt users from ensuring if other demands need to be complied with-according to other laws than the ones hereby stated and applicable to holding and usage of the product-demands for which they will remain sole responsibility.

#### Section(s) modified compared with the previous version :

Revision of the safety data sheet according to 453/2010/EC Regulation.

#### List of R phrases referred to in sections 2 and 3 :

R22 : Harmful if swallowed.

R23 : Toxic if inhaled.

R34 : Causes burns.

R40 : Limited evidence of a carcinogenic effect.

R41 : Risk of serious damage to eyes.

R43 : May cause sensitization by skin contact.

R48/23 : Toxic : danger of serious damage to health by prolonged exposure through inhalation.

R50/53 : Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### List of H phrases referred to in sections 2 and 3 :

H290 : May be corrosive to metals.

H302 : Harmful if swallowed.

H314 : Causes severe skin burns and eye damage.

H317 : May cause an allergic skin reaction.

H318 : Causes serious eye damage.

H330 : Fatal if inhaled.

H351 : Suspected of causing cancer.

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.

#### Sources of key data used to compile the data sheet :

MSDS supplier

International limit values for chemical agents

Historical :



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Cancel and replaces previous version 4.2.1