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Periodic acid ≥99 %, for synthesis

article number: **2612** Version: **GHS 3.0 en** Replaces version of: 2021-06-18 Version: (GHS 2)

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

# 1.1 Product identifier

Identification of the substance

Article number CAS number **Periodic acid** ≥99 %, for synthesis 2612

10450-60-9

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

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

Do not use for products which come into direct contact with the skin. Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household). Food, drink and animal feedingstuffs.

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

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:**+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment sheet:

# e-mail (competent person):

# sicherheit@carlroth.de

# 1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
NSW Poisons Information Centre Childrens Hospital	Hawkesbury Road	2145 West- mead, NSW	131126	

# **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

## **Classification acc. to GHS**

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.14	Oxidising solid		Ox. Sol. 1	H271
3.2	Skin corrosion/irritation	1C	Skin Corr. 1C	H314
3.3	Serious eye damage/eye irritation		Eye Dam. 1	H318

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Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.9	Specific target organ toxicity - repeated exposure	1	STOT RE 1	H372

For full text of abbreviations: see SECTION 16

# The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. Delayed or immediate effects can be expected after short or long-term exposure.

# 2.2 Label elements

## Labelling

Signal word Danger

#### **Pictograms**



# **Hazard statements**

H271	May cause fire or explosion; strong oxidiser
H314	Causes severe skin burns and eye damage
H372	Causes damage to organs (thyroid gland) through prolonged or repeated exposure (if swallowed)

#### **Precautionary statements**

#### **Precautionary statements - prevention**

P210	Keep away from heat/sparks/open flames/hot surfaces No smoking
P260	Do not breathe dusts or mists
P280	Wear eve protection/face protection

## **Precautionary statements - response**

P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P370+P378 P371+P380+P375	In case of fire: Use sand, carbon dioxide or powder extinguisher for extinction In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion

## 2.3 Other hazards

## Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

## **Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

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3.1

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

Su	ibstances	
Na	ame of substance	Periodic acid
M	olecular formula	$H_5IO_6$
M	olar mass	227.9 <sup>g</sup> / <sub>mol</sub>
CA	AS No	10450-60-9

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures



#### **General notes**

Take off immediately all contaminated clothing. Self-protection of the first aider.

#### **Following inhalation**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following skin contact

After contact with skin, wash immediately with plenty of water. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

#### Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

#### **Following ingestion**

Rinse mouth immediately and drink plenty of water. Call a physician immediately. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

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

Corrosion, Risk of blindness, Gastric perforation, Risk of serious damage to eyes

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

none

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media



# Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

# Unsuitable extinguishing media

water jet

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# 5.2 Special hazards arising from the substance or mixture

Explosive when mixed with combustible material. Oxidising property. Non-combustible.

# Hazardous combustion products

Hydrogen iodide (HI)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures



#### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe dust.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority. The product is an acid. Before discharge into sewage plants the product normally needs to be neutralised.

# 6.3 Methods and material for containment and cleaning up

#### Advice on how to contain a spill

Covering of drains. Take up mechanically.

#### Advice on how to clean up a spill

Take up mechanically. Control of dust.

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

Handle and open container with care. Avoid dust formation. Clear contaminated areas thoroughly.

#### Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits. Keep away from combustible material.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place. Keep away from combustible material. Hygroscopic solid.

## Incompatible substances or mixtures

Observe hints for combined storage. Keep/store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles.

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## Consideration of other advice:

#### **Ventilation requirements**

Use local and general ventilation.

# Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

# 7.3 Specific end use(s)

No information available.

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

## 8.1 Control parameters

#### **National limit values**

#### **Occupational exposure limit values (Workplace Exposure Limits)**

Coun try	Name of agent	CAS No	Identifi- er	TWA [mg/ m³]	STEL [mg/ m³]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
AU	nuisance dusts		WES	10			i	WES

## Notation

Ceiling-C Ceiling value is a limit value above which exposure should not occur
Inhalable fraction
STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

## Human health values

Relevant DN	Relevant DNELs and other threshold levels						
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time			
DNEL	0.1 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects			
DNEL	0.3 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects			
DNEL	0.06 mg/kg bw/ day	human, dermal	worker (industry)	chronic - systemic effects			
DNEL	0.2 mg/kg bw/ day	human, dermal	worker (industry)	acute - systemic effects			

#### **Environmental values**

Relevant	Relevant PNECs and other threshold levels							
End- point	Threshold level	Organism	Environmental com- partment	Exposure time				
PNEC	0 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)				
PNEC	0 <sup>mg</sup> /l	aquatic organisms	marine water	short-term (single instance)				
PNEC	2.2 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)				
PNEC	0 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sediment	short-term (single instance)				



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Relevant PNECs and other threshold levels							
End- point	Threshold level	Organism	Environmental com- partment	Exposure time			
PNEC	0 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)			
PNEC	0 <sup>mg</sup> / <sub>kg</sub>	terrestrial organisms	soil	short-term (single instance)			

# 8.2 Exposure controls

# Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection. Wear face protection.

# **Skin protection**



#### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. 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. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### • type of material

NBR (Nitrile rubber)

# material thickness

>0,11 mm

## • breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### • other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

#### **Respiratory protection**



Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).

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# Environmental exposure controls

Keep away from drains, surface and ground water.

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

# 9.1 Information on basic physical and chemical properties

•
solid
crystalline
whitish
faintly perceptible
127.7 °C (ECHA)
not determined
non-combustible
not determined
not applicable
262 °C (ECHA)
100 – 200 °C (ECHA)
1.2 (in aqueous solution: 100 <sup>g</sup> / <sub>l</sub> , 20 °C)
not relevant
>1,000 <sup>g</sup> / <sub>l</sub> at 20 °C (ECHA)
not relevant (inorganic)
<1.26 (ECHA)
<7.6 Pa at 20 °C
3.37 <sup>g</sup> / <sub>cm³</sub> at 20 °C (ECHA)
7.9 (air = 1)
~1,400 <sup>kg</sup> / <sub>m³</sub>
No data available.

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# article number: 2612 Oxidising properties 9.2 Other information Information with regard to physical hazard classes:

Other safety characteristics:

There is no additional information.

There is no additional information.

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

It's a reactive substance. Oxidising property.

# 10.2 Chemical stability

Moisture-sensitive. Hygroscopic solid.

# 10.3 Possibility of hazardous reactions

Violent reaction with: Combustible materials, Organic substances, Strong alkali

# 10.4 Conditions to avoid

Humidity. Keep away from heat. Decompostion takes place from temperatures above: 100 - 200 °C.

# 10.5 Incompatible materials combustible materials

# 10.6 Hazardous decomposition products Hazardous combustion products: see section 5.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

# **Classification acc. to GHS**

# Acute toxicity

Shall not be classified as acutely toxic.

# Skin corrosion/irritation

Causes severe skin burns and eye damage.

# Serious eye damage/eye irritation

Causes serious eye damage.

# **Respiratory or skin sensitisation**

Shall not be classified as a respiratory or skin sensitiser.

# Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

# Carcinogenicity

Shall not be classified as carcinogenic.

# **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

# Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

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## Specific target organ toxicity - repeated exposure

Causes damage to organs (thyroid gland) through prolonged or repeated exposure (if swallowed).

Hazard category	Target organ	Exposure route
1	thyroid gland	if swallowed

#### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

## Symptoms related to the physical, chemical and toxicological characteristics

## • If swallowed

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects)

## • If in eyes

causes burns, Causes serious eye damage, risk of blindness

#### • If inhaled

Data are not available.

#### • If on skin

causes severe burns, causes poorly healing wounds

#### • Other information

none

# 11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Very toxic to aquatic life.

Aquatic toxicity (acute)				
Endpoint Value Species Source				Exposure time
LC50	>0.17 <sup>mg</sup> / <sub>l</sub>	fish	ECHA	96 h
EC50	0.086 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	ECHA	48 h
ErC50	2.5 <sup>mg</sup> / <sub>l</sub>	algae	ECHA	72 h
Aquatic toxicity (chronic)				
Endpoint	Value	Species	Source	Exposure time
EC50	220 <sup>mg</sup> / <sub>l</sub>	microorganisms	ECHA	3 h

## 12.2 Persistence and degradability

Data are not available.



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# 12.3 Bioaccumulative potential

Data are not available.

# 12.4 Mobility in soil

The Organic Carbon normalised adsorption coefficient

<1.26 (ECHA)

# 12.5 Results of PBT and vPvB assessment

Data are not available.

# 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

# 12.7 Other adverse effects

Data are not available.

# **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

## Sewage disposal-relevant information

Do not empty into drains.

## Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

## Relevant provisions relating to waste(Basel Convention)

## Properties of waste which render it hazardous

H5.1 Oxidizing

H11 Toxic (Delayed or chronic)

# 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

# SECTION 14: Transport information

14.1	UN number	
	UN RTDG	UN 3085
	IMDG-Code	UN 3085
	ICAO-TI	UN 3085
14.2	UN proper shipping name	
	UN RTDG	OXIDIZING SOLID, CORROSIVE, N.O.S.
	IMDG-Code	OXIDIZING SOLID, CORROSIVE, N.O.S.

# Safety data sheet Safety data sheet acc. to Safe Work Australia - Code of Practice

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article	ticle number: <b>2612</b>				
	ICAO-TI	Oxidizing solid, corrosive, n.o.s.			
	Technical name	Periodic acid			
14.3	Transport hazard class(es)				
	UN RTDG	5.1 (8)			
	IMDG-Code	5.1 (8)			
	ICAO-TI	5.1 (8)			
14.4	Packing group				
	UN RTDG	I			
	IMDG-Code	I			
	ICAO-TI	I			
14.5	Environmental hazards	hazardous to the aquatic environment			
14.6	Special precautions for user				
	There is no additional information.				
14.7	<b>Transport in bulk according to IMO instruments</b> The cargo is not intended to be carried in bulk.	i			
14.8	Information for each of the UN Model Regulatio	ons			
	Transport informationNational regulationsAddi	tional information(UN RTDG)			
	UN number	3085			
	Class	5.1			
	Subsidiary risk(s)	8			
	Environmental hazards	Yes Hazardous to the aquatic environment			
	Packing group	I			
	Danger label(s)	5.1+8 Fish and tree			
	Special provisions (SP)	274 UN RTDG			
	Excepted quantities (EQ)	E0 UN RTDG			
	Limited quantities (LQ)	0 UN RTDG			
	Emergency Action Code	1W			

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International Maritime Dangerous Goods Code (IMDG) - Additional information		
Proper shipping name	OXIDIZING SOLID, CORROSIVE, N.O.S.	
Particulars in the shipper's declaration	UN3085, OXIDIZING SOLID, CORROSIVE, N.O.S., (Periodic acid), 5.1 (8), I, MARINE POLLUTANT	
Marine pollutant	<b>Yes</b> (hazardous to the aquatic environment)	
Danger label(s)	5.1+8, "Fish and tree"	
Special provisions (SP)	274	
Excepted quantities (EQ)	EO	
Limited quantities (LQ)	0	
EmS	F-A, S-Q	
Stowage category	D	
International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information		
Proper shipping name	Oxidizing solid, corrosive, n.o.s.	
Particulars in the shipper's declaration	UN3085, Oxidizing solid, corrosive, n.o.s., (Period- ic acid), 5.1 (8), I	
Environmental hazards	<b>Yes</b> (hazardous to the aquatic environment)	
Danger label(s)	5.1+8	
Special provisions (SP)	A3	
Excepted quantities (EQ)	EO	

# **SECTION 15: Regulatory information**

**15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture There is no additional information.

## National regulations(Australia)

# Australian Inventory of Chemical Substances(AICS)

Substance is listed.

## **Other information**

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

# **National inventories**

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Country	Inventory	Status
AU	AIIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

#### Legend

Legena	
AIIC	Australian Inventory of Industrial Chemicals
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
KECI	Korea Existing Chemicals Inventory
NCI	National Chemical Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

# 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

# **SECTION 16: Other information**

# Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
14.8		Emergency Action Code: 1W	yes
15.1		Other information: Directive 94/33/EC on the protection of young people at work. Observe employment restric- tions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.	yes
15.1		National inventories: change in the listing (table)	yes

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## Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
STEL	Short-term exposure limit
TWA	Time-weighted average
UN RTDG	UN Recommendations on the Transport of Dangerous Good
vPvB	Very Persistent and very Bioaccumulative
WES	Safe Work Australia: Workplace exposure standards for airborne contaminants

# Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

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# List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H271	May cause fire or explosion; strong oxidiser.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H372	Causes damage to organs (thyroid gland) through prolonged or repeated exposure (if swallowed).

# Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.