

PERSEUS ACTIVATOR

MATERIAL SAFETY DATA SHEET

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1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY UNDERTAKING

PRODUCT NAME ACTIVATOR
MOLECULAR FORMULA CH₃-COOOH
TYPE OF PRODUCT MIXTURE

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Identified uses Cleaning agent
Disinfectants and general biocidal products
Oxidising Agents

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

RS Hygiene Ltd, The Street, Worlington, Suffolk IP28 728 Tel: 03331230202

2 HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

2.1.1. EUROPEAN REGULATION (EC) 1272/2008, AS AMENDED

CLASSIFIED AS HAZARDOUS ACCORDING TO THE EUROPEAN REGULATION (EC) 1272/2008, AS AMENDED

HAZARD CLASS	HAZARD CATEGORY	ROUTE OF EXPOSURE	H PHRASES
Oxidizing liquids	Category 2		H272
Acute toxicity	Category 4	Oral	H302
Acute toxicity	Category 4	Dermal	H312
Skin corrosion	Category 1C		H314
Serious eye damage	Category 1		H318
Specific target organ toxicity - single exposure	Category 3	Inhalation	H335
Chronic aquatic toxicity	Category 1		H4102.

1.2. EUROPEAN DIRECTIVE 67/548/EEC OR 1999/45/EC, AS AMENDED

2.2. LABEL ELEMENTS

Classified as hazardous according to European Directive 67/548/EEC or 1999/45/EC, as amended

Hazard class / Hazard category	R-phrases(s)
O	R8
C	R34
Xn	R20/21/22
Xi	R41
Xi	R37
N	R50/53

2.2. Label elements

2.2.1. Name(s) on label

Hazardous components Hydrogen peroxide (30 %)
Acetic acid (5 %)
Peracetic acid (3 %)

2.2.2. Signal word

Danger

2.2.3. Hazard pictograms





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2.2.4. Hazard statements

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects

2.2.5. Precautionary statements

Prevention	
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P221	Take any precaution to avoid mixing with combustibles.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Response	
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.
P310	Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

None known

None known

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

3.2.1. Concentration

Substance name	Concentration
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Hydrogen peroxide

ca. 30 %

CAS-No.: 7722-84-1 / EC-No.: 231-765-0 / Index-No.: 008-003-00-9

REACH Registration Number: 01-2119485845-2

Acetic acid

ca. 5 %

CAS-No.: 64-19-7 / EC-No.: 200-580-7 / Index-No.: 607-002-00-6

REACH Registration Number: 01-2119475328-30

Peracetic acid

ca. 3 %

CAS-No.: 79-21-0 / EC-No.: 201-186-8 / Index-No.: 607-094-00-8

REACH Registration Number: 01-2119531330-563.

2.2. Hazardous components - According to Regulation (EC) 1272/2008, as amended

Substance name	Hazard class	Hazard category	Route of exposure	H Phrases
Hydrogen peroxide	Oxidizing liquids	Category 1		H271
	Acute toxicity	Category 4	Oral	H302
	Acute toxicity	Category 4	Inhalation	H332
	Skin corrosion	Category 1A		H314
	Serious eye damage	Category 1		H318
	Specific target organ toxicity - single exposure	Category 3	Inhalation	H335



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Acetic acid	Chronic aquatic toxicity	Category 3		H412
Peracetic acid	Flammable liquids	Category 3		H226
	Skin corrosion	Category 1A		H314
	Flammable liquids	Category 3		H226
	Organic peroxides	Type D		H242
	Acute toxicity	Category 4	Oral	H302
	Acute toxicity	Category 4	Inhalation	H332
	Acute toxicity	Category 4	Dermal	H312
	Skin corrosion	Category 1A		H314
	Target Organ			
	Systemic Toxicant			
	Single exposure	Category 3	Inhalation	H335
Acute aquatic hazard	Category 1		H400	
Chronic aquatic toxicity	Category 1		H410	
M-Factors: Acute aquatic toxicity: 1. Chronic aquatic toxicity: 10				
Hydrogen peroxide				R 5
	O	Oxidising		R 8
	C	Corrosive		R35
	Xn	Harmful		R20/22
Acetic acid				R10
				R35
Peracetic acid	C	Corrosive		R10
	O	Oxidising		R 7
	Xn	Harmful		R20/21/22
	C	Corrosive		R35
	N	Dangerous for the environment		R50
				H318

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

4.1.1. If inhaled

Move to fresh air.
Oxygen or artificial respiration if needed.
Victim to lie down in the recovery position, cover and keep him warm.
Call a physician immediately.

4.1.2. In case of eye contact

Call a physician or poison control centre immediately.
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
In the case of difficulty of opening the lids, administer an analgesic eye wash (oxybuprocaine).
Take victim immediately to hospital.

4.1.3. In case of skin contact

Take off contaminated clothing and shoes immediately.
Wash off immediately with plenty of water.
Keep warm and in a quiet place.
Call a physician or poison control centre immediately.
Wash contaminated clothing before re-use.

4.1.4. If swallowed

Call a physician or poison control centre immediately.
Take victim immediately to hospital.
If swallowed, rinse mouth with water (only if the person is conscious).
Do NOT induce vomiting.



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Artificial respiration and/or oxygen may be necessary.

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

4.2.1. Inhalation

Severe respiratory irritant
Symptoms: Breathing difficulties, Cough, chemical pneumonitis, pulmonary oedema
Repeated or prolonged exposure: Nose bleeding, chronic bronchitis

4.2.2. Skin contact

Corrosive
Symptoms: Redness, Swelling of tissue, Burn

4.2.3. Eye contact

Corrosive
May cause irreversible eye damage.
Symptoms: Redness, Lachrymation, Swelling of tissue, Burn

4.2.4. Ingestion

If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.
Symptoms: Nausea, Abdominal pain, Bloody vomiting, Diarrhoea, Suffocation, Cough, Severe shortness of breath
Risk of: Respiratory disorder

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

Take victim immediately to hospital.
Immediate medical attention is required.
Consult with an ophthalmologist immediately in all cases.
Burns must be treated by a physician.
If swallowed
Avoid gastric lavage (risk of perforation).
Keep under medical supervision for at least 48 hours.

SECTION 5 : FIREFIGHTING MEASURES

5.1. Extinguishing media

5.1.1. Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water
Water spray

5.1.2. Unsuitable extinguishing media

None

5.2. Special hazards arising from the substance or mixture

May cause fire or explosion; strong oxidiser.
Oxygen released in thermal decomposition may support combustion

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.
Wear chemical resistant oversuit
Cool containers/tanks with water spray.
Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. Advice for non-emergency personnel

Evacuate personnel to safe areas.
Keep people away from and upwind of spill/leak.

6.1.2. Advice for emergency responders



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Use personal protective equipment.
Drying of this product on clothing or combustible materials may cause fire.
Keep wetted with water.
Prevent further leakage or spillage.
Keep away from incompatible products

6.2. Environmental precautions

Discharge into the environment must be avoided.
Do not flush into surface water or sanitary sewer system.
In case of accidental release or spill, immediately notify the appropriate authorities if required by Federal, State/Provincial and local laws and regulations.

6.3. Methods and materials for containment and cleaning up

Dam up.
Soak up with inert absorbent material.
Prevent product from entering drains.
Keep in suitable, closed containers for disposal.
Keep in properly labelled containers.

6.4. Reference to other sections

Refer to protective measures listed in sections 7 and 8.

SECTION 7 : HANDLING AND STORAGE

7.1. Precautions for safe handling

Use only in well-ventilated areas.
Before all operations, passivate the piping circuits and vessels according to the procedure recommended by the producer.
Use only clean and dry utensils.
Never return unused material to storage receptacle.
May not get in touch with:
Organic materials
Keep away from Incompatible products.
Keep away from heat.

7.2. Conditions for storage, including incompatibilities

7.2.1. Storage

Store in original container.
Keep tightly closed in a dry, cool and well-ventilated place.
Keep in properly labelled containers.
Keep in a banded area.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Electrical equipment should be protected to the appropriate standard.
Keep away from incompatible products

7.2.2. Packaging material

7.2.2.1. Suitable material

Stainless steel cleaned and passivated
Approved grades of HDPE.

7.3. Specific end use(s)

For further information, please contact: Supplier

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. Exposure Limit Values

Hydrogen peroxide

UK. EH40 Workplace Exposure Limits (WELs) 12 2011
time weighted average = 1 ppm
time weighted average = 1.4 mg/m³
UK. EH40 Workplace Exposure Limits (WELs) 12 2011



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Short term exposure limit = 2 ppm
Short term exposure limit = 2.8 mg/m³
US. ACGIH Threshold Limit Values 02 2014 time weighted average = 1 ppm

Acetic acid

US. ACGIH Threshold Limit Values 03 2013 time weighted average = 10 ppm
US. ACGIH Threshold Limit Values 03 2013 Short term exposure limit = 15 ppm
EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU 12 2009
time weighted average = 10 ppm time weighted average = 25 mg/m³
Remarks: Indicative

Peracetic acid

US. ACGIH Threshold Limit Values 02 2014 Short term exposure limit = 0.4 ppm
Remarks: Inhalable fraction and vapor.

8.1.2. Other information on limit values

8.1.2.1. Predicted No Effect Concentration

Hydrogen peroxide

Fresh water, 0.0126 mg/l
Marine water, 0.0126 mg/l
Sewage treatment plants, 4.66 mg/l
Intermittent use/release, 0.0138 mg/l
Fresh water sediment, 0.047 mg/kg
Marine sediment, 0.047 mg/kg
Soil, 0.0023 mg/kg

Peracetic acid

Fresh water, 0.000224 mg/l
Sewage treatment plants, 0.051 mg/l
Fresh water sediment, 0.00018 mg/kg
Soil, 0.320 mg/kg

8.1.2.2. Derived No Effect Level / Derived minimal effect level

Hydrogen peroxide

Workers, Inhalation, Short-term exposure, Local effects, 3 mg/m³
Workers, Inhalation, Long-term exposure, Local effects, 1.4 mg/m³
Consumers, Inhalation, Short-term exposure, Local effects, 1.93 mg/m³
Consumers, Inhalation, Long-term exposure, Local effects, 0.21 mg/m³

Peracetic acid

Workers, Inhalation, Systemic effects, Short-term exposure, Long-term exposure, 0.6 mg/m³
Workers, Inhalation, Local effects, Short-term exposure, Long-term exposure, 0.6 mg/m³
Workers, Dermal, Local effects, Short-term exposure, 0.12 %
Consumers, Inhalation, Systemic effects, Short-term exposure, Long-term exposure, 0.6 mg/m³
Consumers, Inhalation, Local effects, Long-term exposure, 0.6 mg/m³
Consumers, Inhalation, Local effects, Short-term exposure, 0.3 mg/m³
Consumers, Dermal, Local effects, Short-term exposure, 0.12 %

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation.
Apply technical measures to comply with the occupational exposure limits.

8.2.2. Individual protection measures

8.2.2.1. Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.



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Respirator with a vapour filter (EN 141)

Recommended Filter type

ABEK-P2

8.2.2.2. Hand protection

Impervious gloves

Suitable material: butyl-rubber

Glove thickness

$\geq 0,4$ mm

Break through time:

> 480 min

Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

8.2.2.3. Eye protection

Chemical resistant goggles must be worn.

If splashes are likely to occur, wear: Tightly fitting safety goggles, Face-shield

8.2.2.4. Skin and body protection

Apron/boots of butyl rubber if risk of splashing.

8.2.2.5. Hygiene measures

Ensure that eyewash stations and safety showers are close to the workstation location.

Take off contaminated clothing and shoes immediately.

Wash contaminated clothing before re-use.

When using do not eat, drink or smoke.

Wash hands before breaks and at the end of workday.

Handle in accordance with good industrial hygiene and safety practice.

8.2.3. Environmental exposure controls

Dispose of rinse water in accordance with local and national regulations

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

9.1.1. General Information

Appearance

liquid

Colour

colourless

Odour

pungentp

9.1.2. Important health safety and environmental information

pH

< 2

pKa

pKa1= 8.2 at 25 °C

Melting point/freezing point

ca. -42 °C (calculated value)

Flash point

74 - 83 °C

Boiling point/boiling range

ca. 105 °C, (calculated value)

(closed cup)

Evaporation rate

No data

Flammability (solid, gas)

Not applicable

Flammability (solid gas)

not applicable

The product is not flammable., Heating may cause a fire.

Explosive properties

Not explosive

Vapour pressure

ca. 32 hPa, at 25 °C; Method: calculated value

Vapour density

no data available

Density

no data available

Relative density

1.1

Bulk density

Not applicable



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Solubility(ies)	no data available
Solubility/qualitative	completely miscible (Water) soluble, organic solvent slightly soluble, Aromatic solvents
Partition coefficient: n- octanol/water	log Pow: -1.25, Method: calculated value log Pow: -0.52, Method: measured value
Auto-ignition temperature	no data available
Decomposition temperature	>= 60 °C, Self-Accelerating decomposition temperature (SADT)
Viscosity	no data available
Oxidizing properties	Oxidizer
9.2. Other information	
Remarks	no data available

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Decomposes on heating.
Heating may cause a fire.
Potential for exothermic hazard

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Contact with combustible material may cause fire.
Contact with flammables may cause fire or explosions.
Risk of explosion if heated under confinement.
Fire or intense heat may cause violent rupture of packages.

10.4. Conditions to avoid

Contamination
To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Acids, Bases, Metals, Heavy metal salts, Powdered metal salts, Reducing agents,
Organic materials, Flammable materials

10.6. Hazardous decomposition products

Oxygen

SECTION 10: STABILITY AND REACTIVITY

SECTION 11: TOXICOLOGICAL INFORMATION

11.1.1 Acute toxicity

LD50, Rat, >300 mg/kg (5% PAA mixture)

11.1.2. Acute inhalation toxicity

LC50, 4 h, Rat , 4,080 mg/m3, aerosol (5 % PAA mixture)

11.1.3. Acute dermal toxicity

LD50, Rabbit, 1,147 mg/kg (5 % PAA mixture)

11.1.4. Irritation (other route)

Inhalation, Rat, Irritating to respiratory system., 22 - 24 mg/m3, RD 50 (Peracetic acid)

11.2. Skin corrosion/irritation

Rabbit, Corrosive

11.3. Serious eye damage/eye irritation

Rabbit, Risk of serious damage to eyes.

11.4. Sensitisation

Guinea pig, Did not cause sensitization on laboratory animals.

11.5. Mutagenicity

In vitro tests did not show mutagenic effects
Animal testing did not show any mutagenic effects.



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11.6. Carcinogenicity

no data available

11.7. Toxicity for reproduction

No toxicity to reproduction

11.8. Repeated dose toxicity

Oral route (gavage), 13 weeks, Rat, 0.75 mg/kg, NOAEL (Peracetic acid)
Oral (drinking water), 13 weeks, Mouse, 100 ppm, NOAEL (Hydrogen peroxide)

11.9. Other information

no data available

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Fishes, *Lepomis macrochirus*, LC50, 96 h, 1.1 mg/l (Peracetic acid)
Danio rerio (zebra fish), NOEC, 33 Days, 0.00094 mg/l, Early-life Stage (Peracetic acid)
Crustaceans, *Daphnia magna*, EC50, 48 h, 0.73 mg/l (Peracetic acid)
Pseudokirchneriella subcapitata (green algae), EC50, 72 - 96 h, 0.16 mg/l (Peracetic acid)

12.2. Persistence and degradability

12.2.1. Abiotic degradation

Air
Result: The product can be degraded by abiotic (e.g. chemical or photolytic) processes.
Water
Result: Chemical degradation
Soil
Result: Chemical degradation

12.2.2. Biodegradation

aerobic
Result: Biodegradable.
Effects on waste water treatment plants Result: inhibitory action

12.3. Bioaccumulative potential

Result: Does not bioaccumulate.

12.4. Mobility in soil

Water soluble, mobile
Soil/sediments
on-significant adsorption

12.5. Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

12.6. Other adverse effects

no data available

13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Contact manufacturer.
Contact waste disposal services.
In accordance with local and national regulations.

13.2. Contaminated packaging

Empty containers.
Clean container with water.
Dispose of rinse water in accordance with local and national regulations.
Where possible recycling is preferred to disposal or incineration.
In accordance with local and national regulations.



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SECTION 14 : TRANSPORT INFORMATION

International transport regulations

- IATA-DGR

14.1. UN number	UN 3149
14.2. UN proper shipping name	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
14.3. Transport hazard class(es)	
Hazard class	5.1
Labels	5.1 - Oxidizing substances 8 - Corrosive
14.4. Packing group	II
14.5. Environmental hazards	Marine pollutant
14.6. Special precautions for user	
EMS	F-H S-Q

- ADR

14.1. UN number	UN 3149
14.2. UN proper shipping name	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
14.3. Transport hazard class(es)	
Hazard class	5.1
Labels	5.1 - Oxidizing substances 8 - Corrosive
14.4. Packing group II	
14.5. Environmental hazards	Environmentally hazardous
14.6. Special precautions for user	
HI/UN No.	58 / 3149
Tunnel restriction code	E
RID	

14.1. UN number	UN 3149
14.2. UN proper shipping name	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
14.3. Transport hazard class(es)	
Hazard class	5.1
Labels	5.1 - Oxidizing substances 8 - Corrosive
14.4. Packing group	II
14.5. Environmental hazards	Environmentally hazardous
14.6. Special precautions for user	
HI/UN No.	58 / 3149
ADN	

14.1. UN number	UN 3149
14.2. UN proper shipping name	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
14.3. Transport hazard class(es)	
Hazard class	5.1
Labels	5.1 - Oxidizing substances 8 - Corrosive
14.4. Packing group	II
14.5. Environmental hazards	Environmentally hazardous
14.6. Special precautions for user	

15 REGULATORY INFORMATION

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), as amended



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Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations, as amended

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, as amended

Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

COUNCIL DIRECTIVE 96/82/EC on the control of major-accident hazards involving dangerous substances as amended

EH40/2005. Workplace Exposure Limits, as amended through 1, 10, 2007 (WELs) Published by the Health and Safety Executive (HSE). Issued under the Control of Substances Hazardous to Health Regulations - as amended

15.1.1. Notification status

Inventory Information Status

USA. Toxic Substances Control Act (TSCA)

- In compliance with inventory

Australia. Inventory of Chemical Substances (AICS)

- In compliance with inventory

Canada. Domestic Substances List (DSL)

- In compliance with inventory

Korea. Existing Chemicals Inventory (KECI (KR))

- In compliance with inventory

EU list of existing chemical substances (EINECS)

- In compliance with inventory

Japan. Inventory of Existing & New Chemical Substances (ENCS)

- In compliance with inventory

China. Inventory of Existing Chemical Substances (IECSC)

- In compliance with inventory

Philippine. Inventory of Chemicals and Chemical Substances (PICCS)

- In compliance with inventory

New Zealand. Inventory of Chemicals (NZIOC)

- In compliance with inventory

Mexico INSQ (INSQ)

- In compliance with inventory

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this substance. (Peracetic acid)

See Exposure scenario

SECTION 16. OTHER INFORMATION

16.1. Full text of H-Statements referred to under section 3

H226 -	Flammable liquid and vapour.
H242 -	Heating may cause a fire.
H271 -	May cause fire or explosion; strong oxidiser.
H302 -	Harmful if swallowed.
H312 -	Harmful in contact with skin.
H314 -	Causes severe skin burns and eye damage.
H318 -	Causes serious eye damage
H332 -	Harmful if inhaled.
H335 -	May cause respiratory irritation.
H400 -	Very toxic to aquatic life.
H410 -	Very toxic to aquatic life with long lasting effects.
H412 -	Harmful to aquatic life with long lasting effects.



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16.2. Full text of R-phrases referred to under sections 2 and 3

16.2.1. Full text of R-phrases referred to under section 2

R8 -	Contact with combustible material may cause fire.
R34 -	Causes burns.
R20/21/22 -	Harmful by inhalation, in contact with skin and if swallowed.
R41 -	Risk of serious damage to eyes.
R37 -	Irritating to respiratory system.
R50/53 -	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16.2.2. Full text of R-phrases referred to under section 3

R 5 -	Heating may cause an explosion.
R 7 -	May cause fire.
R 8 -	Contact with combustible material may cause fire.
R10 -	Flammable.
R20/22 -	Harmful by inhalation and if swallowed.
R20/21/22 -	Harmful by inhalation, in contact with skin and if swallowed.
R22 -	Harmful if swallowed
R35 -	Causes severe burns.
R41 -	Risk of serious damage to eyes
R50 -	Very toxic to aquatic organisms.
16.3.	Other information

- Update

General revision

The information given corresponds to the current state of our knowledge and experience of the product, and is not exhaustive. This applies to product which conforms to the specification, unless otherwise stated. In this case of combinations and mixtures one must make sure that no new dangers can arise. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and protection of human welfare and the environment.