## Hydrogen Chloride 4M in 1,4-Dioxane



Version number:

**Issued**: 2024-03-06 **Replaces SDS**: 2022-09-09

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

#### 1.1. Product identifier

#### Trade name

Hydrogen Chloride 4M in 1,4-Dioxane

#### CAS number

7647-01-0

#### EC number

231-595-7

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

Research and development. Laboratory Chemicals. Manufacture of substances.

#### Not suitable for use in

Not suitable for human consumption or veterinary purposes.

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

#### Supplier

Molekula Group

#### Address

Molekula Ltd, Lingfield Way, Darlington, DL1 4XX Darlington United Kingdom

#### Telephone

+44 (0) 3302 000 333

#### **Email**

info@molekula.com

Web site

www.molekula.com

#### Contact person

Kevin Banks

#### <u>Email</u>

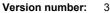
+44 (0) 7769276927

#### 1.4. Emergency telephone number

## Poison center/Additional emergency number

0344 892 0111 - National Poisons Information Service (Newcastle Centre)

## Hydrogen Chloride 4M in 1,4-Dioxane



**Issued**: 2024-03-06 **Replaces SDS**: 2022-09-09



#### **SECTION 2: Hazards identification**

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

Classification according to Regulation (EC) No 1272/2008

#### Classification

Flammable liquids, hazard category 2

Skin corrosion, hazard category 1B

Serious eye damage, hazard category 1

Acute toxicity, oral, hazard category 4

Specific Target Organ Toxicity — Single exposure, hazard category 3

Carcinogenicity, hazard category 2

#### Hazard statements

H225, H314, H318, H332, H335, H351

#### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

#### **Hazard pictograms**









#### Signal word

Danger

#### **Hazard statements**

H225 Highly flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

### Supplemental hazard statements

EUH019 May form explosive peroxides.

EUH066 Repeated exposure may cause skin dryness or cracking.

## Hydrogen Chloride 4M in 1,4-Dioxane



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## **Precautionary statements**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe dust/fumes/gas/mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep 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.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P310 Immediately call a POISON CENTER/doctor.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use Water spray, dry powder or carbon dioxide. to extinguish.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container to local regulations.

#### 2.3. Other hazards

No data available

## Hydrogen Chloride 4M in 1,4-Dioxane



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

#### 3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
1,4-dioxane	123-91-1 204-661-8 01-2119462837-26 603-024-00-5	83 - 85%	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 - resp. tract irrit., Carc. 1B	H225, H319, H335, H350 -	D
Hydrochloric acid	7647-01-0 231-595-7 -	15 - 17%	Met. Corr. 1, Skin Corr. 1B, Eye Dam. 1, STOT SE 3	H318, H335	-

#### Molecular weight

36.46

#### Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

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

#### 4.1. Description of first aid measures

Get medical attention if any discomfort continues. Show this Safety Data Sheet (SDS) to medical personnel. Chemical burns must be treated by a physician.

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Maintain an open airway. Loosen any tight clothing, such as a collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention. Place unconscious person on the side in the recovery position and ensure breathing can take place.

#### Skin contact

IF ON SKIN: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Continue to rinse for at least 15 minutes and seek medical attention. Chemical burns must be treated by a physician.

#### Eye contact

Remove contact lenses if present. Rinse eyes with water. Continue to rinse for at least 15 minutes and seek medical attention. Do not rub eye.

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#### **Ingestion**

Rinse mouth thoroughly. Drink a few glasses of water or milk. Stop if the affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Place unconscious person on the side in the recovery position and ensure breathing can take place. NOTE! Effects may be delayed. Keep affected person under observation. Get medical attention if any discomfort continues.

#### **Information for doctors**

It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

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

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

#### **Inhalation**

Single exposure may cause the following adverse effects: Difficulty in breathing. Severe irritation in nose and throat.

Symptoms following overexposure may include the following: Corrosive to the respiratory tract.

Prolonged or repeated exposure may cause: Suspected of causing cancer.

#### Skin contact

Causes severe burns. Symptoms following overexposure may include the following: May cause stomach pain or vomiting.

Prolonged or repeated exposure may cause: Suspected of causing cancer.

#### Eye contact

Causes serious eye damage.

Symptoms following overexposure may include the following: Pain. Redness. Profuse watering of the eyes.

#### **Ingestion**

May cause chemical burns in mouth, oesophagus and stomach.

Symptoms following overexposure may include the following: May cause stomach pain or vomiting.

Prolonged or repeated exposure may cause: Suspected of causing cancer.

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

Treat symptomatically. No special treatment requirement.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

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#### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

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

Specific hazards: FLAMMABLE. Toxic. Corrosive. Combustible.

Containers can burst violently when heated, due to excess pressure build-up.

Flammable liquid and vapour.

Vapours may be ignited by a spark, a hot surface or an ember.

Vapours may form explosive mixture with air at room temperature.

Do not allow to enter drains, sewers or watercourses. Risk of explosion.

Water used for fire extinguishing, which has been in contact with the product, may be corrosive.

Development of hazardous combustion gases or vapours possible in the event of fire. Vapours are heavier than air and may travel along the floor and in the bottom of containers.

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Carbon monoxide (CO). Carbon dioxide (CO2).

Hydrogen chloride (HCI).

#### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

Evacuate area. Avoid breathing gas, fume, vapours or spray. Prevent skin contact by maintaining a safe distance and by wearing suitable protective equipment/ clothing. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Keep upwind.

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

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

Avoid inhalation of vapours and spray mist and contact with skin and eyes. For personal protection, see section 8. Provide adequate ventilation. Remove sources of ignition. Beware of the explosion danger. Take action to prevent static discharges.

#### 6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Risk of explosion.

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

Collect with absorbent, non-combustible material into suitable containers. Remove sources of ignition. Beware of the explosion danger. Use spark-proof tools and explosion-proof equipment.

#### 6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

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### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### **Preventive handling precautions**

For precautions see section 2.2. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take action to prevent static discharges. Use spark-proof tools and explosion-proof equipment. Wear protective clothing, gloves, eye and face protection. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

#### General hygiene

Observe good chemical hygiene practices. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove contaminated clothing and launder thoroughly before re-use. Wash skin thoroughly after handling.

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

Store at room temperature. Store in a dry place. Store in a closed container. Handle and store contents under inert gas. Moisture Sensitive.

#### 7.3. Specific end use(s)

No specific usage precautions noted.

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

#### 8.1. Control parameters

#### **Exposure limits**

TWA. 1ppm. 2mg/m3 Gas and aerosol mists. WEL = Workplace Exposure Limit. 5ppm. 8mg/m3. Gas and aerosol mists. WEL = Workplace Exposure Limit.

#### **DNEL/DMEL**

Product/Substance name (CAS No./EC No.)	Туре	Exposure	Value	Population	Effects
1,4-dioxane (123-91-1/204-661-8)	DNEL	Chronic (long term) Inhalation	144 mg/m³	Workers	Systemic
1,4-dioxane (123-91-1/204-661-8)	DNEL	Chronic (long term) Inhalation	73 mg/kg bw/day	Workers	Systemic
1,4-dioxane (123-91-1/204-661-8)	DNEL	Chronic (long term) Dermal	21 mg/m³	Workers	Systemic

#### PNEC/PEC

## Hydrogen Chloride 4M in 1,4-Dioxane



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Product/Substance name (CAS No./EC No.)	Туре	Environmental compartment	Value
1,4-dioxane (123-91-1/204-661-8)	PNEC	Soil	0.153 mg/kg
1,4-dioxane (123-91-1/204-661-8)	PNEC	Marine water	0.67 mg/l
1,4-dioxane (123-91-1/204-661-8)	PNEC	Freshwater	10 mg/l
1,4-dioxane (123-91-1/204-661-8)	PNEC	Sediment (freshwater)	37 mg/kg
1,4-dioxane (123-91-1/204-661-8)	PNEC	Sewage Treatment Plant	2700 mg/l
1,4-dioxane (123-91-1/204-661-8)	PNEC	Intermittent releases	10 mg/l

#### 8.2. Exposure controls

#### Personal Protective Equipment Symbols















#### Eye / face protection

Wear eye protection.

#### **Hand protection**

Wear protective gloves. Recommended gloves: Butyl rubber.

Glove Thickness: 0.3mm Breakthrough time: 8 hours

Always inspect gloves before use. If signs of wear and tear are noticed then the gloves should be replaced.

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. Wash contaminated skin thoroughly after handling.

## Other skin protection

Wash skin thoroughly after handling.

#### Respiratory protection

Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided.

## Hydrogen Chloride 4M in 1,4-Dioxane

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### **Environmental exposure controls**

Avoid discharge into drains.

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

## 9.1. Information on basic physical and chemical properties <u>Physical state</u>

Liquid

#### **Colour**

Colourless.

#### Odour

No data available

#### Melting point / freezing point

No data available

## Boiling point or initial boiling point and boiling range

No data available

#### **Flammability**

No data available

#### Lower and upper explosion limit

No data available

#### Flash point

17 °C

#### Method

CC (Closed cup).

### **Auto-ignition temperature**

No data available

#### **Decomposition temperature**

No data available

### <u>рН</u>

No data available

#### Kinematic viscosity

No data available

### **Solubility**

No data available

## Hydrogen Chloride 4M in 1,4-Dioxane



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#### Partition coefficient n-octanol/water

No data available

#### Vapour pressure

No data available

#### Density and/or relative density

1.05 g/cm<sup>3</sup>

#### Relative vapour density

No data available

#### Particle characteristics

No data available

#### 9.2. Other information

No data available

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

#### 10.1. Reactivity

Forms explosive mixtures with air on intense heating. May form explosive peroxides.

#### 10.2. Chemical stability

Stable under normal temperature conditions. Stable under the prescribed storage conditions. Handle and store contents under inert gas.

#### 10.3. Possibility of hazardous reactions

oxidising agents

#### 10.4. Conditions to avoid

Heat, sparks, flames. Closed containers can burst violently when heated, due to excess pressure build-up. Static electricity and formation of sparks must be prevented. Moisture.

#### 10.5. Incompatible materials

Amines.

Reducing Agents.

Strong bases

oxidising agents

Strong alkalis.

#### 10.6. Hazardous decomposition products

See section 5.

## Hydrogen Chloride 4M in 1,4-Dioxane



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## **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals
1,4-dioxane 123-91-1 / 204-661-8	LD50	5,150 mg/kg	Oral	Rat
1,4-dioxane 123-91-1 / 204-661-8	LD50	7,378 mg/kg	-	Rabbit

#### Skin corrosion/irritation

Product / Substance name CAS / EC no.	Result	Duration of exposure	Species
1,4-dioxane 123-91-1 / 204-661-8	No skin irritation.	20 hours	Rabbit
Hydrochloric acid 7647-01-0 / 231-595-7	CAUSES BURNS.	-	-
Hydrochloric acid 7647-01-0 / 231-595-7	Corrosive.	-	reconstructed human epi- dermis (RhE)

## Serious eye damage/irritation

Product / Substance name CAS / EC no.	Result	Species
1,4-dioxane 123-91-1 / 204-661-8	Causes eye irritation.	Rabbit
Hydrochloric acid 7647-01-0 / 231-595-7	Causes serious eye damage.	-
Hydrochloric acid 7647-01-0 / 231-595-7	Risk of: Blindness.	-
Hydrochloric acid 7647-01-0 / 231-595-7	Corrosive.	Bovine cornea

#### Respiratory or skin sensitisation

## Hydrogen Chloride 4M in 1,4-Dioxane



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Product / Substance name CAS / EC no.	Result	Species	Method / Guideline
1,4-dioxane 123-91-1 / 204-661-8	Negative.	Guinea Pig	Maximization Test
Hydrochloric acid 7647-01-0 / 231-595-7	Negative.	Guinea Pig	Guinea pig maximization test (GPMT):

## Germ cell mutagenicity

Product / Sub- stance name CAS / EC no.	Result	Exposure route	Metabolic activa- tion / Exposure	Species	Method / Guideline
1,4-dioxane 123-91-1 / 204-661- 8	Negative.	-	with and without metabolic activation	Salmonella typh- imurium	Ames test
1,4-dioxane 123-91-1 / 204-661- 8	Negative.	-	with and without metabolic activation	Chinese Hamster cells: Ovary	In vitro mammalian cell gene mutation test.
1,4-dioxane 123-91-1 / 204-661- 8	Negative.	-	with and without metabolic activation	Chinese Hamster cells: Ovary	Chromosome aberration: In Vitro Test
1,4-dioxane 123-91-1 / 204-661- 8	Negative.	Oral	-	Rat Liver.	unscheduled DNA synthesis assay
Hydrochloric acid 7647-01-0 / 231- 595-7	Conflicting results have been seen in different studies.	-	-	-	-

## Carcinogenicity

Product / Substance name CAS / EC no.	Other
1,4-dioxane 123-91-1 / 204-661-8	Potentially carcinogenic to humans.
Hydrochloric acid 7647-01-0 / 231-595-7	No evidence of carcinogenicity in animal studies

## STOT-single exposure

## Hydrogen Chloride 4M in 1,4-Dioxane



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Product / Substance name CAS / EC no.	Result
1,4-dioxane 123-91-1 / 204-661-8	May cause respiratory irritation.
Hydrochloric acid 7647-01-0 / 231-595-7	May cause respiratory irritation.

### Aspiration hazard

Based on available data, the classification criteria are not met.

#### 11.2. Information on other hazards

No data available

## **SECTION 12: Ecological information**

## 12.1. Toxicity Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
Hydrochloric acid 7647-01-0 / 231-595-7	LC50	-	48 hours	Leucscus idus
Hydrochloric acid 7647-01-0 / 231-595-7	LC50	282 mg/l	96 hours	Gambusia affinis (Mosquito fish)

## Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
1,4-dioxane 123-91-1 / 204-661-8	ErC50	>1000 mg/l	72 hours	Pseudokirchneriella sub- capitata

## Acute crustacean toxicity

## Hydrogen Chloride 4M in 1,4-Dioxane



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Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
1,4-dioxane 123-91-1 / 204-661-8	EC50	>1000 mg/l	48 hours	Daphnia magna
Hydrochloric acid 7647-01-0 / 231-595-7	EC50	56 mg/l	72 hours	Daphnia magna

#### **Chronical toxicity**

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
1,4-dioxane 123-91-1 / 204-661-8	NOEC	1000 mg/l	21 days	Daphnia magna
1,4-dioxane 123-91-1 / 204-661-8	NOEC	103 mg/l	32 days	Pimephales promelas (Fat-head Minnow)

## 12.2. Persistence and degradability <u>Persistence and degradability</u>

Product / Substance name CAS / EC no.	Type of test	Duration	Result	Degradation
1,4-dioxane 123-91-1 / 204-661-8	aerobic	29 days	<10%	The product is not readily biodegradable.

## 12.3. Bioaccumulative potential <u>Bioaccumulative potential</u>

Product / Substance name CAS / EC no.	Bioconcentration factor (BCF)	Result	Species
1,4-dioxane 123-91-1 / 204-661-8	0.3-0.7	10 mg/l	Cyprinus carpio (Common carp)

## 12.4. Mobility in soil

No data available

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

No data available

## Hydrogen Chloride 4M in 1,4-Dioxane



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#### 12.6. Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors.

#### 12.7. Other adverse effects

No data available

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Disposal considerations**

Dispose of contents/container in accordance with local/regional/national/international regulations.

## **SECTION 14: Transport information**

#### 14.1. UN number

2924

#### 14.2. UN proper shipping name

#### ADR / RID / ADN proper shipping name

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Hydrogen Chloride 4M in 1,4-Dioxane)

#### IMDG proper shipping name

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Hydrogen Chloride 4M in 1,4-Dioxane)

#### IATA proper shipping name

Flammable liquid, corrosive, n.o.s. (Hydrogen Chloride 4M in 1,4-Dioxane)

## Hydrogen Chloride 4M in 1,4-Dioxane



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# molekula SCAPELORGANICS group SHERMAN SHERMICALS

## 14.3. Transport hazard class(es)

<u>Label</u>

ADR/RID/ADN





**IMDG** 





. — .

IATA





ADR / RID Class

3

## ADR / RID Classification code

FC

## ADR / RID hazard identification number

338

## **IMDG Class**

3 (8)

## IATA Class

3 (8)

## ADN Class

3

## ADN Class Code

FC

## Hydrogen Chloride 4M in 1,4-Dioxane



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#### 14.4. Packing group

ADR / RID / ADN: II

IMDG: II IATA: II

#### 14.5. Environmental hazards

Not applicable

#### 14.6. Special precautions for user

#### Special precautions for user

Tunnel restriction code: D/E Transport category: 2

#### IMDG EmS

F-E, S-C

#### 14.7. Maritime transport in bulk according to IMO instruments

IBC Instruction: IBC02

## **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU regulations</u>

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. This material safety data sheet complies with the requirements of Regulation (EU) 2020/878.

#### National regulations

No data available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## Hydrogen Chloride 4M in 1,4-Dioxane



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#### **SECTION 16: Other information**

### Phrase meaning

Flam. Liq. 2 - Flammable liquids, hazard category 2

Skin Corr. 1B - Skin corrosion, hazard category 1B

Eye Dam. 1 - Serious eye damage, hazard category 1

Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4

STOT SE 3 - Specific Target Organ Toxicity — Single exposure, hazard category 3

Carc. 2 - Carcinogenicity, hazard category 2

Eye Irrit. 2 - Eye irritation, hazard category 2

STOT SE 3 - resp. tract irrit. - Specific Target Organ Toxicity — Single exposure, hazard category

3 - respiratory tract irritation

Carc. 1B - Carcinogenicity, hazard category 1B

Met. Corr. 1 - Corrosive to metals, hazard category 1

H225 Highly flammable liquid and vapour.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H350 May cause cancer.

H351 Suspected of causing cancer.

EUH019 May form explosive peroxides.

EUH066 Repeated exposure may cause skin dryness or cracking.