



SAFETY DATA SHEET

Ali

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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

1.1. Product identifier

Product name Ali
Chemical name
Product number 020-17

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

Identified uses Car maintenance product. - Aluminium cleaner
Uses advised against For professional use only. This product is not recommended for any industrial, professional or consumer use other than the Identified uses above.

1.3. Details of the supplier of the safety data sheet

Supplier Autosmart International Ltd
Lynn Lane,
Shenstone, nr Lichfield
Staffordshire. WS14 0DH
England
www.autosmartinternational.com
Tel: +44 (0) 1543 481616 (09:00 - 17:00)
Fax: +44 (0) 1543 481549 (09:00 - 17:00)
info@autosmartinternational.com

Contact person Mr. Russell Butler

Manufacturer

1.4. Emergency telephone number

Emergency telephone Mob: +44 (0) 7808 971321 (24hrs) Tel: +44 (0) 1543 481616 (09:00 - 17:00) Fax: +44 (0) 1543 481549 (09:00 - 17:00) If you urgently need medical help or advice but it's not a life-threatening situation, call 111 free from any phone to speak to an NHS adviser. The 24-hour NHS 111 service can give you healthcare advice or direct you to the local service that can help you best. If NHS 111 does not yet cover your area, you can call NHS Direct in England or Wales on 08 45 46 47* or NHS 24 in Scotland on 0845 24 24 24* (UK Only) The NHS 111 service will also be available via the harmonised European number for medical advice 116 117* Calls to 084 numbers are charged at a higher rate than standard calls on BT's most popular call plan (BT Unlimited Weekend). Mobile and other providers costs will vary and you should check the costs of calls with your provider

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards

Met. Corr. 1 - H290

Health hazards

Acute Tox. 3 - H301 Acute Tox. 2 - H310 Acute Tox. 3 - H331 Skin Corr. 1A - H314 Eye Dam. 1 - H318

Environmental hazards

Not Classified

Classification (67/548/EEC or 1999/45/EC)

T+; R27. T; R23/25. C; R35

2.2. Label elements

Ali

Pictogram



Signal word

Danger

Hazard statements

H301+H331 Toxic if swallowed or if inhaled.
 H310 Fatal in contact with skin.
 H314 Causes severe skin burns and eye damage.

Precautionary statements

P262 Do not get in eyes, on skin, or on clothing.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P320 Specific treatment is urgent (see medical advice on this label).
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P501 Dispose of contents/container in accordance with national regulations.

Contains

HYDROFLUORIC ACID 5.32 %, Phosphoric Acid, C9-C11 Alcohol ethoxylate (6)

Detergent labelling

< 5% non-ionic surfactants, < 5% phosphates

Supplementary precautionary statements

P260 Do not breathe vapour/spray.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 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.
 P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
 P405 Store locked up.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

HYDROFLUORIC ACID ...%		5-10%
CAS number: 7664-39-3 EC number: 231-634-8 REACH registration number: 01-2119458860-33-XXXX		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 2 - H300	T+;R26/27/28 C;R35	
Acute Tox. 1 - H310		
Acute Tox. 2 - H330		
Skin Corr. 1A - H314		
Eye Dam. 1 - H318		
STOT SE 3 - H335		
Phosphoric Acid		2-5%
CAS number: 7664-38-2 EC number: 231-633-2 REACH registration number: 01-2119485924-24-XXXX		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Skin Corr. 1B - H314	C;R34	
Eye Dam. 1 - H318		

Ali

C9-C11 Alcohol ethoxylate (6)	2-5%
CAS number: 68439-46-3 EC number: – REACH registration number: Polymer	
Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318	Classification (67/548/EEC or 1999/45/EC) Xn;R22. Xi;R41.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

CAUTION! First aid personnel must be aware of own risk during rescue! Get medical attention immediately. Chemical burns must be treated by a physician. Effects may be delayed. Keep affected person under observation.

Inhalation

Move affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Get medical attention immediately.

Ingestion

Do not induce vomiting. Rinse mouth thoroughly with water. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Give milk instead of water if readily available. Get medical attention immediately.

Skin contact

Remove contaminated clothing. Rinse immediately with plenty of water. Apply Calcium Gluconate Gel over the affected areas. Get medical attention immediately.

Eye contact

Get medical attention immediately. Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Consult a physician for specific advice. Effects may be delayed. Medical aid should instil several drops of sterile calcium gluconate solution. Show this Safety Data Sheet to the medical personnel.

Protection of first aiders

First aid personnel should wear appropriate protective equipment during any rescue.

4.2. Most important symptoms and effects, both acute and delayed**General information**

Effects may be delayed. Keep affected person under observation. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation

Delayed, often serious, breathing problems.

Ingestion

May cause unconsciousness, blindness and possibly death.

Skin contact

Chemical burns. Reddened skin if chemical is not removed by washing. Later, white and wrinkled skin without pain, often with delayed skin burns.

Eye contact

May cause chemical eye burns. May cause blurred vision and serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed**Notes for the doctor**

Specific notes for fluoride derivatives: If calcium gluconate gel is available, rub it into affected skin. Massage continuously until pain disappears. Do not use this method for treatment of eyes. If ingested, give milk or calcium gluconate by mouth.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture**Specific hazards**

Thermal decomposition or combustion products may include the following substances: Asphyxiating gases. Toxic gases/vapours/fumes of: Hydrogen fluoride (HF). No unusual fire or explosion hazards noted.

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Hazardous combustion products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Fire creates: Vapours/gases/fumes of: Hydrogen fluoride (HF).

5.3. Advice for firefighters

Protective actions during firefighting

Keep up-wind to avoid fumes. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Use special protective clothing. Regular protection may not be safe. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters

Wear chemical protective suit. Severe corrosive hazard. Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions

Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Do not touch or walk into spilled material. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Neutralise spilled material with crushed limestone, slaked lime (calcium hydroxide), soda ash (sodium carbonate) or sodium bicarbonate. Flush contaminated area with plenty of water. Large spills, dilute, then neutralise with caustic solution. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush contaminated area with plenty of water. Flush contaminated area with plenty of water. The requirements of the local water authority must be complied with if contaminated water is flushed directly to the sewer.

6.4. Reference to other sections

Reference to other sections

See Section 11 for additional information on health hazards.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Read and follow manufacturer's recommendations. Avoid spilling. Avoid contact with skin and eyes. Eye wash facilities and emergency shower must be available when handling this product. Provide adequate ventilation. Antidote must be found in place of work.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container. Keep above the chemical's freezing point to avoid rupturing the container. Store in closed original container at temperatures between 5°C and 25°C.

Storage class

Corrosive storage.

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Ali**HYDROFLUORIC ACID ...%**

Long-term exposure limit (8-hour TWA): WEL 1.8 ppm 1.5 mg/m³

Short-term exposure limit (15-minute): WEL 3 ppm 2.5 mg/m³
as F

Phosphoric Acid

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³

Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit

Phosphoric Acid (CAS: 7664-38-2)

DNEL

Consumer - Inhalation; Long term local effects: 0.73 mg/m³

Professional - Inhalation; Long term local effects: 2.92 mg/m³

C9-C11 Alcohol ethoxylate (6) (CAS: 68439-46-3)**Ingredient comments**

No exposure limits known for ingredient(s).

8.2. Exposure controls**Protective equipment****Appropriate engineering controls**

This product must not be handled in a confined space without adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles and face shield.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Wear protective gloves made of the following material: Rubber (natural, latex). Neoprene. Polyvinyl chloride (PVC). The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact. Wear rubber footwear. Provide eyewash station. Ensure calcium gluconate antidote gel is available.

Hygiene measures

Provide eyewash station and safety shower. Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Acid gas filter.

SECTION 9: Physical and Chemical Properties**9.1. Information on basic physical and chemical properties****Appearance**

Liquid.

Colour

Clear liquid.

Odour

Acidic.

Odour threshold

Not available. Not available.

Ali**pH**

pH (concentrated solution): ~ 1.0

Melting point

~ 0°C

Initial boiling point and range

~ 100°C @ 760 mm Hg

Flash point

Not applicable.

Evaporation rate

Not available.

Upper/lower flammability or explosive limits

Not applicable. : :

Vapour pressure

Not available.

Relative density

~ 1.047 @ (20°C)°C

Solubility(ies)

Soluble in water. Miscible with water.

Partition coefficient

Not available.

Auto-ignition temperature

Not applicable.

Decomposition Temperature

Not available.

Viscosity

Not available. @ °C

Oxidising properties

Not applicable.

Comments

Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

9.2. Other information**Volatile organic compound**

This product contains a maximum VOC content of 0 g/litre.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reacts with alkalis and generates heat. The following materials may react with the product: Strong reducing agents.

10.2. Chemical stability**Stability**

Stable at normal ambient temperatures. Avoid the following conditions: Avoid contact with peroxides. Avoid contact with alkalis.

10.3. Possibility of hazardous reactions

Will not polymerise.

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials**Materials to avoid**

Strong alkalis. Strong acids. Strong oxidising agents.

10.6. Hazardous decomposition products

Thermal decomposition or combustion products may include the following substances: Vapours/gases/fumes of: Hydrogen fluoride (HF).

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

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Toxicological effects

This product is toxic.

Other health effects

There is no evidence that the product can cause cancer. NTP Not Listed. IARC Not Listed.

Acute toxicity - oral

ATE oral (mg/kg)

93.37068161

Acute toxicity - dermal

ATE dermal (mg/kg)

93.98496241

Acute toxicity - inhalation

ATE inhalation (vapours mg/l)

9.39849624

ATE inhalation (dusts/mists mg/l)

0.93984962

Skin corrosion/irritation

Extreme pH

≤ 2 Classification based on Conventional Method, and In Vitro Approaches - Corrosive or Irritant by measuring pH and Acid/Alkali Reserve. Corrosive

Inhalation

Toxic by inhalation. Irritating to respiratory system. Prolonged inhalation of high concentrations may damage respiratory system.

Ingestion

Toxic if swallowed. Swallowing concentrated chemical may cause severe internal injury. May cause burns in mucous membranes, throat, oesophagus and stomach.

Skin contact

Toxic in contact with skin. May be absorbed through the skin. Effect may be delayed.

Eye contact

May cause chemical eye burns. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

Acute and chronic health hazards

Repeated exposure to high concentrations of materials containing fluorine may increase bone density leading to Osteosclerosis.

Route of entry

Skin and/or eye contact Inhalation Ingestion.

Medical symptoms

Severe skin irritation. Severe lung irritation. Reddened skin if chemical is not removed by washing. Later, white and wrinkled skin without pain, often with delayed skin burns.

Ali**Toxicological information on ingredients.****HYDROFLUORIC ACID ...%****Toxicological effects**

This product is toxic.

Other health effects

There is no evidence that the product can cause cancer.

Acute toxicity - inhalation**ATE inhalation (vapours mg/l)**

0.5

ATE inhalation (dusts/mists mg/l)

0.05

Acute and chronic health hazards

This chemical can be hazardous when inhaled and/or touched. Toxic in contact with skin.

Route of entry

Inhalation Skin absorption Ingestion.

Target organs

Bone structure Heart & cardiovascular system Teeth Central nervous system

Medical symptoms

Reddened skin if chemical is not removed by washing. Later, white and wrinkled skin without pain, often with delayed skin burns.

Phosphoric Acid**Other health effects**

There is no evidence that the product can cause cancer.

Acute toxicity - oral**Acute toxicity oral (LD50 mg/kg)**

3,500

Species

Rat

Acute toxicity - dermal**Acute toxicity dermal (LD50 mg/kg)**

1689

Skin sensitisation

Not sensitising.

C9-C11 Alcohol ethoxylate (6)**Other health effects**

There is no evidence that the product can cause cancer.

SECTION 12: Ecological Information**Ecotoxicity**

Dangerous for the environment if discharged into watercourses. The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms. The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

Ecological information on ingredients.**HYDROFLUORIC ACID ...%****Ecotoxicity**

The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

Phosphoric Acid**Ecotoxicity**

The product may contribute to an excessive enrichment of the aquatic environment with nutrients. The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

12.1. Toxicity

Ali

Acute toxicity - fish

Not determined.

Acute toxicity - aquatic invertebrates

Not determined.

Acute toxicity - aquatic plants

Not determined.

Acute toxicity - microorganisms

Not determined.

Acute toxicity - terrestrial

Not determined.

Ecological information on ingredients.

HYDROFLUORIC ACID ...%

Acute toxicity - aquatic invertebrates

EC , 48 hours: ~ 10.6 mg/l, Daphnia magna

Phosphoric Acid

Acute toxicity - fish

LC50, : 100 mg/l, Freshwater fish

Acute toxicity - aquatic invertebrates

EC , : 29 mg/l, Daphnia magna NOEC, 72 hours: 100 mg/l, Daphnia magna

Acute toxicity - aquatic plants

IC , 72 hours: 590 mg/l, Freshwater algae

C9-C11 Alcohol ethoxylate (6)

Acute toxicity - fish

LC , 96 hours: 10 mg/l, Fish

Acute toxicity - aquatic invertebrates

EC , 48 hours: 10 mg/l, Daphnia magna

Acute toxicity - aquatic plants

IC , 72 hours: 10 mg/l, Algae

12.2. Persistence and degradability

Persistence and degradability

The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request, or at the request of a detergent manufacturer. The product is biodegradable but it must not be discharged into drains without permission from the authorities.

Ecological information on ingredients.

HYDROFLUORIC ACID ...%

Persistence and degradability

The product is biodegradable.

Phosphoric Acid

Persistence and degradability

The product contains mainly inorganic substances which are not biodegradable. The other substances in the product are expected to be readily biodegradable.

C9-C11 Alcohol ethoxylate (6)

Persistence and degradability

The product is biodegradable. This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request, or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

Partition coefficient

Not available.

Ali

Ecological information on ingredients.

HYDROFLUORIC ACID ...%

The product does not contain any substances expected to be bioaccumulating.

Phosphoric Acid

The product does not contain any substances expected to be bioaccumulating.

C9-C11 Alcohol ethoxylate (6)

The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility

The product is soluble in water.

Ecological information on ingredients.

HYDROFLUORIC ACID ...%

Mobility

The product is soluble in water.

Phosphoric Acid

Mobility

The product is soluble in water.

C9-C11 Alcohol ethoxylate (6)

Mobility

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

HYDROFLUORIC ACID ...%

This substance is not classified as PBT or vPvB according to current EU criteria.

Phosphoric Acid

This product does not contain any substances classified as PBT or vPvB.

C9-C11 Alcohol ethoxylate (6)

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Not applicable.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

When handling waste, the safety precautions applying to handling of the product should be considered. The packaging must be empty (drop-free when inverted).

Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Confirm disposal procedures with environmental engineer and local regulations. Discharge of small quantities to the sewer with plenty of water may be permitted. The requirements of the local water authority must be complied with if contaminated water is flushed directly to the sewer. Larger quantities should be treated in a suitable plant or disposed of via a licensed waste disposal contractor.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	1790
UN No. (IMDG)	1790
UN No. (ICAO)	1790

14.2. UN proper shipping name

Ali

Proper shipping name (ADR/RID)	HYDROFLUORIC ACID with not more than 60% hydrogen fluoride
Proper shipping name (IMDG)	HYDROFLUORIC ACID with not more than 60% hydrogen fluoride
Proper shipping name (ICAO)	HYDROFLUORIC ACID with not more than 60% hydrogen fluoride
Proper shipping name (ADN)	HYDROFLUORIC ACID with not more than 60% hydrogen fluoride

14.3. Transport hazard class(es)

ADR/RID class	8
ADR/RID subsidiary risk	6.1
ADR/RID label	8 & 6.1
IMDG class	8
IMDG subsidiary risk	6.1
ICAO class/division	8
ICAO subsidiary risk	6.1

Transport labels**14.4. Packing group**

ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II

14.5. Environmental hazards**Environmentally hazardous substance/marine pollutant**

No.

14.6. Special precautions for user

IMDG Code segregation group	1. Acids
EmS	F-A, S-B
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	86
Tunnel restriction code	(E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

EU legislation

Dangerous Preparations Directive 1999/45/EC. 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). 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).

Guidance

Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

Health and environmental listings

Ali

Regulation (EC) 689/2008 of the European Parliament and of the Council of 17 June 2008 concerning the export and import of dangerous chemicals (as amended).

Water hazard classification

WGK 2

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information**General information**

Only trained personnel should use this material. This product has been manufactured under ISO 9001 and ISO 14001 Quality and Environmental Management Systems.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

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Revision date	22/09/2014
Revision	8
Supersedes date	08/05/2013
SDS status	Approved.
Risk phrases in full	

R22 Harmful if swallowed.
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R35 Causes severe burns.
R37 Irritating to respiratory system.
R41 Risk of serious damage to eyes.

Hazard statements in full

H290 May be corrosive to metals.
H300 Fatal if swallowed.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H331 Toxic if inhaled.
H335 May cause respiratory irritation.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.