



SUPREME PETRO  
CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·  
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,  
Periyamet, Chennai – 600003, India  
**+91 86087 80096 · +91 81979 47045**  
**admin@supremepetrochemicals.com**

SAFETY DATA SHEET (SDS)

Chromic Acid *SDS*

REV 3.1  
29 JULY 2026  
GHS REV.11 (2025)

CAS **1333-82-0**      EC **215-607-8**      SIGNAL WORD **DANGER**

GHS03

Oxidising Solid

GHS05

Corrosive

GHS06

Acute Toxicity

GHS08

Health Hazard

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE  
COMPANY

|                     |                                                                                                                                       |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Product Name        | Chromic Acid (Chromium Trioxide)                                                                                                      |
| Product Type        | Corrosive / strong oxidising solid                                                                                                    |
| Chemical Family     | Chromium oxides — inorganic                                                                                                           |
| CAS No.             | 1333-82-0                                                                                                                             |
| EC No.              | 215-607-8                                                                                                                             |
| Intended Use        | Industrial / professional use as described on the SPC product page.                                                                   |
| Restrictions on Use | Industrial / professional use only. Confirm suitability for final application before use.                                             |
| Supplier            | Supreme Petro Chemicals                                                                                                               |
| Address             | No. 145, 1st Floor, Raja Muthiah Road, Periyamet, Chennai – 600003, India                                                             |
| Emergency Contact   | Sanketh — +91 86087 80096 · Sudarshan — +91 81979 47045                                                                               |
| Email               | admin@supremepetrochemicals.com                                                                                                       |
| Product Page        | <a href="https://www.supremepetrochemicals.com/products/chromic-acid">https://www.supremepetrochemicals.com/products/chromic-acid</a> |
| SDS Revision        | July 2026                                                                                                                             |
| SDS Version         | 3.1                                                                                                                                   |

SECTION 2 HAZARD IDENTIFICATION

Ox. Sol. 1; Acute Tox. 2 (Inhalation); Acute Tox. 2 (Oral); Acute Tox. 1 (Dermal);  
Skin Corr. 1A; Eye Dam. 1; Resp. Sens. 1; Skin Sens. 1; Muta. 1B; Carc. 1A

Signal Word DANGER



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## GHS Pictograms

GHS03 (Oxidising Solid) | GHS05 (Corrosive) | GHS06 (Acute Toxicity) | GHS08 (Health Hazard)

## HAZARD STATEMENTS

- H271 — May cause fire or explosion; strong oxidant
- H300 — Fatal if swallowed
- H310 — Fatal in contact with skin
- H314 — Causes severe skin burns and eye damage
- H317 — May cause an allergic skin reaction
- H318 — Causes serious eye damage
- H330 — Fatal if inhaled
- H334 — May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H340 — May cause genetic defects
- H350 — May cause cancer

## PRECAUTIONARY — PREVENTION

- P210 — Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
- P220 — Keep away from clothing and other combustible materials.
- P221 — Take precautionary measures against mixing with combustibles.
- P260 — Do not breathe dusts or mists.
- P271 — Use only outdoors or in a well-ventilated area.
- P272 — Contaminated work clothing should not be allowed out of the workplace.
- P273 — Avoid release to the environment.
- P280 — Wear protective gloves / protective clothing / eye protection / face protection.
- P285 — In case of inadequate ventilation, wear respiratory protection.

## PRECAUTIONARY — RESPONSE / STORAGE / DISPOSAL

- P301+P310 — IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P302+P352 — IF ON SKIN: Wash with plenty of water.
- P303+P361+P353 — IF ON SKIN OR HAIR: Take off immediately all contaminated clothing. Rinse skin with water or shower.
- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.



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- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 — Immediately call a POISON CENTER or doctor.
- P331 — Do NOT induce vomiting.
- P363 — Wash contaminated clothing before reuse.
- P370+P378 — In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
- P403+P235 — Store in a well-ventilated place. Keep cool.
- P405 — Store locked up.
- P501 — Dispose of contents/container in accordance with local regulations.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

| COMPONENT                        | CAS NO.   | EC NO.    | % W/W | GHS CLASSIFICATION                                                                                                                                                                                                  |
|----------------------------------|-----------|-----------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chromic Acid (Chromium Trioxide) | 1333-82-0 | 215-607-8 | 100   | Ox. Sol. 1; Acute Tox. 2 (Inh.); Acute Tox. 2 (Oral); Acute Tox. 1 (Dermal); Skin Corr. 1A; Eye Dam. 1; Resp. Sens. 1; Skin Sens. 1; Muta. 1B; Carc. 1A; H271, H300, H310, H314, H317, H318, H330, H334, H340, H350 |

Full text of H-statements listed in Section 16.

## SECTION 4 FIRST AID MEASURES

|              |                                                                                                                                                                                                                                         |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation   | Immediately remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Call a POISON CENTER or doctor immediately.                                                               |
| Skin Contact | Remove contaminated clothing immediately. Wash affected skin thoroughly with copious amounts of water for at least 15–20 minutes. Seek immediate medical attention. Do not reuse contaminated clothing until thoroughly decontaminated. |
| Eye Contact  | Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention — causes serious eye damage.                                                   |
| Ingestion    | Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor immediately. If victim is conscious, give water to drink.                                                                                                           |



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## Note to Physician

Chromic acid ( $\text{CrO}_3$ ) is a strong oxidiser and corrosive. Treat with dimercaprol (BAL) or EDTA chelation therapy under specialist guidance. Monitor renal and hepatic function. Respiratory sensitisation may require bronchodilator therapy.

## SECTION 5 FIREFIGHTING MEASURES

### Suitable Extinguishing Media

Water spray, dry sand, dry chemical powder. Large fires: use water spray or fog; do not use a solid water stream as it may spread the material.

### Unsuitable Media

Do not use high-pressure direct water jet — may spread molten or dissolved oxidiser.

### Specific Hazards

Chromic acid is a strong oxidiser and can intensify fires involving organic or combustible materials. Thermal decomposition above  $250^\circ\text{C}$  releases toxic chromium oxide fumes and oxygen, increasing fire risk. Contact with combustible materials may cause ignition.

### Protective Equipment

Wear full protective clothing and self-contained breathing apparatus (SCBA). Do not enter fire zone without full PPE.

### Special Procedures

Evacuate non-essential personnel. Keep containers cool with water spray. Prevent contaminated firefighting run-off from entering drains and watercourses. Collect run-off for proper disposal — it is a heavy-metal hazardous waste.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Isolate spill area. Use full PPE as specified in Section 8 (SCBA, chemical-resistant suit, gloves, goggles). Keep away from combustible materials. Avoid dust formation. Do not allow spill to contact organic material.

### Environmental Precautions

Prevent entry into drains, sewers, soil and watercourses. Chromium(VI) compounds are highly toxic to aquatic organisms. Notify relevant environmental authorities if release reaches water or soil.

### Containment / Clean-up

Sweep up carefully (avoid dust), or take up with a vacuum fitted with HEPA filter. Collect into labelled, compatible, sealed containers (polyethylene or glass) for disposal through an approved hazardous waste contractor. Do not wash into drains. Contaminated area



should be decontaminated with a dilute sodium sulphite or sodium bicarbonate solution to reduce Cr(VI) to Cr(III).

**Reference to Sections**

See Section 8 for PPE, Section 13 for disposal and Section 15 for regulatory information.

## SECTION 7 HANDLING AND STORAGE

**Handling Precautions**

Handle only in well-ventilated areas or under local exhaust ventilation. Avoid generating dust or mist. Do not allow contact with combustible or organic materials — fire and explosion risk. Use grounded, non-sparking equipment. Keep away from heat and ignition sources.

**Hygiene**

Wash hands and exposed skin thoroughly after handling. Remove and decontaminate contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Provide eyewash stations and safety shower in the work area.

**Storage Conditions**

Store in original, tightly closed compatible containers (polyethylene, glass). Inspect containers regularly for leakage or damage.

**Storage Temperature**

Store at ambient temperature (below 35°C) away from heat sources. Avoid moisture ingress — product is hygroscopic and strongly oxidising.

**Incompatible Materials**

Combustible and organic materials (paper, wood, oils, solvents, reducing agents, alcohols, ketones). Concentrated acids. Aluminium and other reactive metals. See Section 10.

**Segregation**

Segregate from all combustible materials, reducing agents, food, drink, animal feed and incompatible chemicals. Store in a dedicated, locked oxidiser store.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**Occupational Exposure Limit**

OSHA PEL (CrO<sub>3</sub> as Cr): 0.1 mg/m<sup>3</sup> (ceiling, 8h TWA). NIOSH REL: 0.2 mg/m<sup>3</sup> TWA (as Cr(VI) compounds). ACGIH TLV-C: 0.05 mg/m<sup>3</sup> (as Cr(VI)). India (MSIHC): follow applicable state factory/workplace regulations — consult local authority. Use ALARA principle. Chromium(VI) compounds are confirmed human carcinogens — minimise exposure.

**Engineering Controls**

Use closed-system handling, glove boxes or local exhaust ventilation (LEV) to control dust and mist. Ensure airborne Cr(VI)



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|                               |                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | concentrations remain below OEL. Provide emergency eyewash and safety shower. Use explosion-proof ventilation where applicable.                                                                                                                                                                                                                 |
| <b>Respiratory Protection</b> | Below OEL with adequate ventilation: P100 (HEPA) particulate respirator. Above OEL or in confined spaces: supplied-air respirator or SCBA (NIOSH/EN approved). For emergencies: full-face SCBA.                                                                                                                                                 |
| <b>Hand / Eye / Skin</b>      | Gloves: chemical-resistant (neoprene, nitrile, butyl rubber, PVC); select for breakthrough time. Eyes: chemical splash goggles (EN 166 / ANSI Z87.1); add full face shield for pour/splash operations. Body: chemical-resistant apron or coverall; antistatic clothing where dust is generated. Footwear: safety boots resistant to corrosives. |

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

|                                   |                                                                                                                                                                                      |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appearance</b>                 | Dark red/orange crystalline solid or flakes (anhydrous). May be supplied as solution — confirm grade with supplier.                                                                  |
| <b>Odour</b>                      | Essentially odourless (solid form); slight metallic or acrid odour in solution.                                                                                                      |
| <b>Odour Threshold</b>            | Not established.                                                                                                                                                                     |
| <b>pH</b>                         | Strongly acidic in aqueous solution (pH < 1 at typical concentrations); not applicable to dry solid.                                                                                 |
| <b>Melting / Freezing Point</b>   | 196°C (anhydrous CrO <sub>3</sub> ) [peer-reviewed]                                                                                                                                  |
| <b>Boiling Point / Range</b>      | Decomposes at approximately 250°C — does not have a conventional boiling point; decomposes to Cr <sub>2</sub> O <sub>3</sub> + O <sub>2</sub> above this temperature [peer-reviewed] |
| <b>Flash Point</b>                | Not applicable — chromic acid is a strong inorganic oxidiser, not a flammable liquid or solid.                                                                                       |
| <b>Auto-ignition Temperature</b>  | Not applicable (inorganic oxidiser).                                                                                                                                                 |
| <b>Flammability Limits</b>        | Not applicable. Product is an oxidiser that may promote ignition of combustible materials.                                                                                           |
| <b>Vapour Pressure</b>            | Very low (solid); negligible at ambient temperature. Verify from supplier SDS for solution grades.                                                                                   |
| <b>Vapour Density (air = 1)</b>   | Not applicable (solid / involatile at ambient conditions).                                                                                                                           |
| <b>Relative Density</b>           | Approximately 2.70 g/cm <sup>3</sup> at 20°C (anhydrous CrO <sub>3</sub> ) [literature value; verify with supplier COA]                                                              |
| <b>Solubility in Water</b>        | Very high — approximately 1,100 g/L at 17°C (1.1 × 10 <sup>6</sup> mg/L) [peer-reviewed PubChem data]                                                                                |
| <b>Log Pow (Partition Coeff.)</b> | Not applicable (inorganic compound).                                                                                                                                                 |



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|                  |                                                                                            |
|------------------|--------------------------------------------------------------------------------------------|
| Evaporation Rate | Not applicable (solid; highly hygroscopic).                                                |
| Viscosity        | Not applicable (solid form). Verify for solution grades from supplier.                     |
| VOC Content      | Nil (inorganic solid). Assess per applicable regional VOC regulations for solution grades. |

## SECTION 10 STABILITY AND REACTIVITY

|                         |                                                                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical Stability      | Stable under recommended storage and handling conditions when kept dry and away from combustible materials and heat.                                                                                                                                                                                                           |
| Conditions to Avoid     | Heat above 196°C (melting), temperatures approaching 250°C (decomposition). Moisture (hygroscopic — absorbs water and forms solutions). Contact with combustible, organic, or reducing materials.                                                                                                                              |
| Incompatible Materials  | Combustible and organic materials (oils, solvents, paper, wood, textiles). Reducing agents (alcohols, aldehydes, ketones, sulphites). Strong mineral acids (concentrated H <sub>2</sub> SO <sub>4</sub> — violent reaction). Aluminium chloride (AlCl <sub>3</sub> ) at elevated temperature. Peroxides and flammable liquids. |
| Hazardous Decomposition | Thermal decomposition above ~250°C yields chromium(III) oxide (Cr <sub>2</sub> O <sub>3</sub> ) and oxygen gas — the released oxygen greatly intensifies fires. In fire conditions, toxic chromium oxide fumes are generated.                                                                                                  |
| Hazardous Reactions     | Contact with combustible materials may cause fire or explosion (strong oxidiser). Reacts violently with reducing agents and organic solvents. No polymerisation hazard.                                                                                                                                                        |

## SECTION 11 TOXICOLOGICAL INFORMATION

|                           |                                                                                                                                                                          |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute Oral Toxicity       | Fatal if swallowed (H300). Classification: Acute Tox. 2 (Oral). LD <sub>50</sub> (rat, oral): approximately 80 mg/kg (as Cr(VI)). Verify with supplier test data.        |
| Acute Dermal Toxicity     | Fatal in contact with skin (H310). Classification: Acute Tox. 1 (Dermal). Causes severe corrosive burns on skin contact.                                                 |
| Acute Inhalation Toxicity | Fatal if inhaled (H330). Classification: Acute Tox. 2 (Inhalation). LC <sub>50</sub> (rat, 4h): data varies by form; use ALARA. Confirmed respiratory sensitiser (H334). |
| Skin Irritation           | Causes severe skin burns and corrosion (H314 — Skin Corr. 1A). Beyond irritation — primary classification is corrosivity.                                                |



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|                        |                                                                                                                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Irritation</b>  | Causes serious eye damage (H318 — Eye Dam. 1). Irreversible damage on contact.                                                                                                                           |
| <b>Sensitisation</b>   | Skin sensitiser (H317). Respiratory sensitiser (H334) — may cause occupational asthma. Chromium(VI) is a well-documented skin and respiratory sensitiser. Handle with full PPE; ALARA principle applies. |
| <b>Carcinogenicity</b> | Chromium(VI) compounds are classified as confirmed human carcinogens — IARC Group 1; ACGIH A1; EU Carc. 1A. Classification: H350 (May cause cancer).                                                     |
| <b>Mutagenicity</b>    | Classification: Muta. 1B (H340 — May cause genetic defects). Genotoxic in vitro and in vivo via Cr(VI) oxidative DNA damage.                                                                             |

## SECTION 12 ECOLOGICAL INFORMATION

|                                    |                                                                                                                                                                                                                                                           |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Aquatic Toxicity</b>            | Chromium(VI) compounds are highly toxic to aquatic organisms. Acute and chronic aquatic toxicity is well-documented. LC50 (fish, 96h): 10–100 mg/L (varies by species). EC50 (Daphnia, 48h): <1 mg/L reported in literature. Avoid all releases to water. |
| <b>Persistence / Degradability</b> | Inorganic compound — not biodegradable. Cr(VI) persists in water and soil. May be reduced to less toxic Cr(III) under reducing conditions. Not readily eliminated from the environment.                                                                   |
| <b>Bioaccumulation</b>             | Chromium can bioaccumulate in aquatic organisms and food chains. BCF data varies by species and oxidation state. Cr(VI) is more bioavailable and toxic than Cr(III).                                                                                      |
| <b>Mobility in Soil</b>            | Soluble in water — highly mobile in soil and groundwater. Adsorption is pH-dependent; lower pH increases mobility. Prevent release to soil and groundwater.                                                                                               |
| <b>Other Adverse Effects</b>       | Avoid uncontrolled release to the environment. Chromium(VI) is subject to strict environmental regulation globally. Manage all releases under applicable local pollution-control and environmental regulations.                                           |



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## SECTION 13 DISPOSAL CONSIDERATIONS

|                        |                                                                                                                                                                                                                                                                                                                                    |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste from Product     | Dispose of contents through an authorised hazardous waste contractor in accordance with local regulations. Chromic acid waste is classified as hazardous — do not pour to drain, sewer or land. Consider chemical reduction of Cr(VI) to Cr(III) using sodium sulphite prior to disposal (where permitted) to reduce hazard class. |
| Contaminated Packaging | Empty containers may retain residues of Cr(VI); handle as hazardous until decontaminated by an approved method. Do not reuse containers without proper cleaning and certification.                                                                                                                                                 |
| Indian Regulations     | Chromium(VI) waste is listed under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (India). Obtain authorisation from the State Pollution Control Board (SPCB) for storage, treatment and disposal. Follow applicable MSIHC Rules.                                                              |

## SECTION 14 TRANSPORT INFORMATION

| PARAMETER            | UN / ADR (ROAD)       | IMDG (SEA)            | IATA (AIR)            |
|----------------------|-----------------------|-----------------------|-----------------------|
| UN Number            | UN 1755               | UN 1755               | UN 1755               |
| Proper Shipping Name | CHROMIC ACID SOLUTION | CHROMIC ACID SOLUTION | CHROMIC ACID SOLUTION |
| Class                | 8                     | 8                     | 8                     |
| Packing Group        | II                    | II                    | II                    |
| Marine Pollutant     | Yes                   | Yes                   | Yes                   |

UN 1755 applies to chromic acid solution. Anhydrous chromic acid (solid CrO<sub>3</sub>) may be classified under UN 1463 (CHROMIC ACID, SOLID) — Class 5.1 (Oxidising Solid), PG I/II. Verify with your carrier/freight forwarder for the specific grade and form shipped. UN-certified packaging required. Label with Class 8 (corrosive) and Class 5.1 (oxidiser) placards as applicable. Verify current ADR/IMDG/IATA requirements before shipment.

## SECTION 15 REGULATORY INFORMATION

|                  |                                                                                                                                                                                                                                                                                                                                             |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU / REACH / CLP | Chromium trioxide (CrO <sub>3</sub> ) is a Substance of Very High Concern (SVHC) listed on the REACH Candidate List (authorisation required). Classified and labelled under EU CLP Regulation (EC) No 1272/2008. Subject to REACH SVHC authorisation requirements under Annex XIV. Observe all REACH and CLP requirements where applicable. |
| OSHA (USA)       | Prepared in OSHA HCS/HazCom 2012 (GHS-aligned) 16-section SDS format. Chromium(VI) compounds are regulated under OSHA's                                                                                                                                                                                                                     |



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|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | Hexavalent Chromium Standard (29 CFR 1910.1026 for general industry; 29 CFR 1926.1126 for construction). PEL: 5 µg/m³ TWA as Cr(VI).                                                                                                                                                                                                                                                                                                |
| India               | Observe applicable rules: Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 (MSIHC), as amended; Hazardous and Other Wastes Rules, 2016; Environment Protection Act, 1986; Factories Act, 1948; Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996. Chromium(VI) compounds are Schedule I hazardous chemicals under MSIHC.                                                              |
| Other Jurisdictions | Canada WHMIS 2015/HPR: classify and label per Section 2 classification; bilingual SDS/label and ingredient disclosure required for Canadian sale. Australia AICS: verify inventory status before import/distribution. Middle East/GCC: observe applicable GHS-aligned local requirements. Final market placement requires confirmation of inventory status, local OELs, transport classification, waste codes and use restrictions. |

## SECTION 16 OTHER INFORMATION

|               |                                                                                                                                                                                        |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Prepared By   | Supreme Petro Chemicals — Technical Department                                                                                                                                         |
| SDS Standard  | UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR — 16-section format                                                                                     |
| Revision Date | 24 June 2026                                                                                                                                                                           |
| Version       | 3.0 (supersedes prior issues)                                                                                                                                                          |
| Disclaimer    | Information is given in good faith and believed accurate at issue. It does not constitute a specification or guarantee; the user is responsible for safe use, handling and compliance. |

### FULL TEXT OF H-STATEMENTS

- H271 — May cause fire or explosion; strong oxidant
- H300 — Fatal if swallowed
- H310 — Fatal in contact with skin
- H314 — Causes severe skin burns and eye damage
- H317 — May cause an allergic skin reaction
- H318 — Causes serious eye damage
- H330 — Fatal if inhaled



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- 
- H334 — May cause allergy or asthma symptoms or breathing difficulties if inhaled
- 
- H340 — May cause genetic defects
- 
- H350 — May cause cancer
-