

# API pH Down

## Mars Fishcare North America, Inc.

Chemwatch: 4650-11  
Version No: 10.2  
Safety Data Sheet according to OSHA HazCom Standard (2024) requirements

Chemwatch Hazard Alert Code: 3  
Initial Date: 09/06/2005  
Revision Date: 08/28/2026  
Print Date: 09/03/2026  
L.GHS.USA.EN

### SECTION 1 Identification

#### Product Identifier

|                               |                                                        |
|-------------------------------|--------------------------------------------------------|
| Product name                  | API pH Down                                            |
| Chemical Name                 | Not Applicable                                         |
| Synonyms                      | Solution ID # 3183; API Pond pH Down; ph adjust        |
| Proper shipping name          | Corrosive liquids, n.o.s. (contains SULFURIC ACID 40%) |
| Chemical formula              | Not Applicable                                         |
| Other means of identification | Not Available                                          |

#### Recommended use of the chemical and restrictions on use

|                          |                                   |
|--------------------------|-----------------------------------|
| Relevant identified uses | pH adjust for products 29 and 30. |
|--------------------------|-----------------------------------|

#### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

|                         |                                                        |
|-------------------------|--------------------------------------------------------|
| Registered company name | Mars Fishcare North America, Inc.                      |
| Address                 | 50 E. Hamilton Street, Chalfont PA 18914 United States |
| Telephone               | 215 822 8181                                           |
| Fax                     | 215 997 1290                                           |
| Website                 | Not Available                                          |
| Email                   | Not Available                                          |

#### Emergency phone number

|                                     |                         |                                     |
|-------------------------------------|-------------------------|-------------------------------------|
| Association / Organisation          | ChemTel                 | CHEMWATCH EMERGENCY RESPONSE (24/7) |
| Emergency telephone number(s)       | 1-800-255-3924          | +1 855-237-5573 (ID#: 4650-11)      |
| Other emergency telephone number(s) | ChemTel: 1-813-248-0585 | +61 3 9573 3188                     |

### SECTION 2 Hazard(s) identification

#### Classification of the substance or mixture

NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health, Red = Fire, Yellow = Reactivity and White = Special (Oxidizer or water reactive substances)

|                |                                                                                                                                                                                          |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Classification | Corrosive to Metals Category 1, Skin Corrosion/Irritation Category 1A, Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity (Inhalation) Category 3, Carcinogenicity Category 1A |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Label elements

|                     |  |
|---------------------|--|
| Hazard pictogram(s) |  |
|---------------------|--|

## API pH Down

Signal word **Danger**

## Hazard statement(s)

|             |                                          |
|-------------|------------------------------------------|
| <b>H290</b> | May be corrosive to metals.              |
| <b>H314</b> | Causes severe skin burns and eye damage. |
| <b>H331</b> | Toxic if inhaled.                        |
| <b>H350</b> | May cause cancer.                        |

## Hazard(s) not otherwise classified

Not Applicable

## Precautionary statement(s) General

|             |                                                                       |
|-------------|-----------------------------------------------------------------------|
| <b>P101</b> | If medical advice is needed, have product container or label at hand. |
| <b>P102</b> | Keep out of reach of children.                                        |
| <b>P103</b> | Read carefully and follow all instructions.                           |

## Precautionary statement(s) Prevention

|             |                                                                                  |
|-------------|----------------------------------------------------------------------------------|
| <b>P201</b> | Obtain special instructions before use.                                          |
| <b>P260</b> | Do not breathe mist/vapours/spray.                                               |
| <b>P264</b> | Wash all exposed external body areas thoroughly after handling.                  |
| <b>P271</b> | Use only outdoors or in a well-ventilated area.                                  |
| <b>P280</b> | Wear protective gloves, protective clothing, eye protection and face protection. |
| <b>P234</b> | Keep only in original packaging.                                                 |
| <b>P261</b> | Avoid breathing mist/vapours/spray.                                              |
| <b>P202</b> | Do not handle until all safety precautions have been read and understood.        |

## Precautionary statement(s) Response

|                       |                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>P301+P330+P331</b> | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.                                                                               |
| <b>P303+P361+P353</b> | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].                         |
| <b>P305+P351+P338</b> | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| <b>P308+P313</b>      | IF exposed or concerned: Get medical advice/ attention.                                                                          |
| <b>P310</b>           | Immediately call a POISON CENTER/doctor/physician/first aider.                                                                   |
| <b>P363</b>           | Wash contaminated clothing before reuse.                                                                                         |
| <b>P304+P340</b>      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| <b>P311</b>           | Call a POISON CENTER/doctor/physician/first aider.                                                                               |
| <b>P390</b>           | Absorb spillage to prevent material damage.                                                                                      |

## Precautionary statement(s) Storage

|                  |                                                                         |
|------------------|-------------------------------------------------------------------------|
| <b>P403+P233</b> | Store in a well-ventilated place. Keep container tightly closed.        |
| <b>P405</b>      | Store locked up.                                                        |
| <b>P406</b>      | Store in a corrosion resistant/ container with a resistant inner liner. |

## Precautionary statement(s) Disposal

|             |                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>P501</b> | Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation. |
|-------------|----------------------------------------------------------------------------------------------------------------------------------|

No further product hazard information.

## SECTION 3 Composition / information on ingredients

## Substances

See section below for composition of Mixtures

## Mixtures

Continued...

## API pH Down

| CAS No    | %[weight] | Name                     |
|-----------|-----------|--------------------------|
| 7664-93-9 | <10       | <u>SULFURIC ACID 40%</u> |

## SECTION 4 First-aid measures

## Description of first aid measures

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Contact</b>  | <p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> <li>▶ Immediately hold eyelids apart and flush the eye continuously with running water.</li> <li>▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>▶ Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>▶ Transport to hospital or doctor without delay.</li> <li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>                                                                                             |
| <b>Skin Contact</b> | <p>If skin or hair contact occurs:</p> <ul style="list-style-type: none"> <li>▶ Immediately flush body and clothes with large amounts of water, using safety shower if available.</li> <li>▶ Quickly remove all contaminated clothing, including footwear.</li> <li>▶ Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.</li> <li>▶ Transport to hospital, or doctor.</li> </ul>                                                                                                                                                                                                                                                                                                     |
| <b>Inhalation</b>   | <ul style="list-style-type: none"> <li>▶ If fumes or combustion products are inhaled remove from contaminated area.</li> <li>▶ Lay patient down. Keep warm and rested.</li> <li>▶ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>▶ Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>▶ Transport to hospital, or doctor, without delay.</li> </ul>                                                                                                                                                                               |
| <b>Ingestion</b>    | <ul style="list-style-type: none"> <li>▶ For advice, contact a Poisons Information Centre or a doctor at once.</li> <li>▶ Urgent hospital treatment is likely to be needed.</li> <li>▶ <b>If swallowed do NOT induce vomiting.</b></li> <li>▶ If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>▶ Observe the patient carefully.</li> <li>▶ Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>▶ Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>▶ Transport to hospital or doctor without delay.</li> </ul> |

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

See Section 11

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

For acute or short term repeated exposures to strong acids:

- ▶ Airway problems may arise from laryngeal edema and inhalation exposure. Treat with 100% oxygen initially.
- ▶ Respiratory distress may require cricothyroidotomy if endotracheal intubation is contraindicated by excessive swelling
- ▶ Intravenous lines should be established immediately in all cases where there is evidence of circulatory compromise.
- ▶ Strong acids produce a coagulation necrosis characterised by formation of a coagulum (eschar) as a result of the dessicating action of the acid on proteins in specific tissues.

## INGESTION:

- ▶ Immediate dilution (milk or water) within 30 minutes post ingestion is recommended.
- ▶ **DO NOT attempt to neutralise the acid since exothermic reaction may extend the corrosive injury.**
- ▶ Be careful to avoid further vomit since re-exposure of the mucosa to the acid is harmful. Limit fluids to one or two glasses in an adult.
- ▶ Charcoal has no place in acid management.
- ▶ Some authors suggest the use of lavage within 1 hour of ingestion.

## SKIN:

- ▶ Skin lesions require copious saline irrigation. Treat chemical burns as thermal burns with non-adherent gauze and wrapping.
- ▶ Deep second-degree burns may benefit from topical silver sulfadiazine.

## EYE:

- ▶ Eye injuries require retraction of the eyelids to ensure thorough irrigation of the conjunctival cul-de-sacs. Irrigation should last at least 20-30 minutes. **DO NOT use neutralising agents or any other additives.** Several litres of saline are required.
- ▶ Cycloplegic drops, (1% cyclopentolate for short-term use or 5% homatropine for longer term use) antibiotic drops, vasoconstrictive agents or artificial tears may be indicated dependent on the severity of the injury.
- ▶ Steroid eye drops should only be administered with the approval of a consulting ophthalmologist).

[Ellenhorn and Barceloux: Medical Toxicology]

## SECTION 5 Fire-fighting measures

## Extinguishing media

Continued...

## API pH Down

- Water spray or fog.
- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

## Special hazards arising from the substance or mixture

|                      |             |
|----------------------|-------------|
| Fire Incompatibility | None known. |
|----------------------|-------------|

## Special protective equipment and precautions for fire-fighters

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire Fighting         | <ul style="list-style-type: none"> <li>▸ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▸ Wear full body protective clothing with breathing apparatus.</li> <li>▸ Prevent, by any means available, spillage from entering drains or water course.</li> <li>▸ Use fire fighting procedures suitable for surrounding area.</li> <li>▸ <b>Do not approach containers suspected to be hot.</b></li> <li>▸ Cool fire exposed containers with water spray from a protected location.</li> <li>▸ If safe to do so, remove containers from path of fire.</li> <li>▸ Equipment should be thoroughly decontaminated after use.</li> </ul> |
| Fire/Explosion Hazard | <ul style="list-style-type: none"> <li>▸ Non combustible.</li> <li>▸ Not considered to be a significant fire risk.</li> <li>▸ Acids may react with metals to produce hydrogen, a highly flammable and explosive gas.</li> <li>▸ Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>▸ May emit corrosive, poisonous fumes. May emit acrid smoke.</li> </ul> <p>Decomposition may produce toxic fumes of:<br/>sulfur oxides (SO<sub>x</sub>)</p>                                                                                                                                                               |

## SECTION 6 Accidental release measures

## Personal precautions, protective equipment and emergency procedures

See section 8

## Environmental precautions

See section 12

## Methods and material for containment and cleaning up

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Minor Spills | <ul style="list-style-type: none"> <li>▸ Clean up all spills immediately.</li> <li>▸ Avoid breathing vapours and contact with skin and eyes.</li> <li>▸ Control personal contact with the substance, by using protective equipment.</li> <li>▸ Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>▸ Wipe up.</li> <li>▸ Place in a suitable, labelled container for waste disposal.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Major Spills | <p>Minor hazard.</p> <ul style="list-style-type: none"> <li>▸ Clear area of personnel and move upwind.</li> <li>▸ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▸ Wear breathing apparatus plus protective gloves.</li> <li>▸ Prevent, by any means available, spillage from entering drains or water course.</li> <li>▸ No smoking, naked lights or ignition sources.</li> <li>▸ Increase ventilation.</li> <li>▸ Stop leak if safe to do so.</li> <li>▸ Contain spill with sand, earth or vermiculite.</li> <li>▸ Collect recoverable product into labelled containers for recycling.</li> <li>▸ Absorb remaining product with sand, earth or vermiculite.</li> <li>▸ Collect solid residues and seal in labelled drums for disposal.</li> <li>▸ Wash area and prevent runoff into drains.</li> <li>▸ If contamination of drains or waterways occurs, advise emergency services.</li> </ul> |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 Handling and storage

## Precautions for safe handling

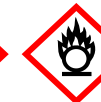
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safe handling | <ul style="list-style-type: none"> <li>▸ Avoid skin contact, including inhalation.</li> <li>▸ Wear protective clothing when risk of exposure occurs.</li> <li>▸ Use in a well-ventilated area.</li> <li>▸ <b>WARNING: To avoid violent reaction, ALWAYS add material to water and NEVER water to material.</b></li> <li>▸ Avoid smoking, naked lights or ignition sources.</li> <li>▸ Avoid contact with incompatible materials.</li> <li>▸ When handling, <b>DO NOT eat, drink or smoke.</b></li> </ul> |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Continued...

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | <ul style="list-style-type: none"><li>Keep containers securely sealed when not in use.</li><li>Avoid physical damage to containers.</li><li>Always wash hands with soap and water after handling.</li><li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li><li>Use good occupational work practice.</li><li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li><li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li><li><b>DO NOT allow clothing wet with material to stay in contact with skin</b></li></ul> |
| Other information | <ul style="list-style-type: none"><li>Store in original containers.</li><li>Keep containers securely sealed.</li><li>Store in a cool, dry, well-ventilated area.</li><li>Store away from incompatible materials and foodstuff containers.</li><li>Protect containers against physical damage and check regularly for leaks.</li><li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li></ul>                                                                                                                                                                                                                                                  |

Conditions for safe storage, including any incompatibilities

|                         |                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable container      | <ul style="list-style-type: none"><li><b>DO NOT use aluminium or galvanised containers</b></li><li>Check regularly for spills and leaks</li></ul>                                                                                                                                                                                  |
| Storage incompatibility | <ul style="list-style-type: none"><li>Segregate from alkalies, oxidising agents and chemicals readily decomposed by acids, i.e. cyanides, sulfides, carbonates.</li><li>Reacts with mild steel, galvanised steel / zinc producing hydrogen gas which may form an explosive mixture with air.</li><li>Avoid strong bases.</li></ul> |



+

x

0

x

+

+

0

x — Must not be stored together  
0 — May be stored together with specific preventions  
+ — May be stored together

**Note:** Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

| Source                                               | Ingredient        | Material name | TWA     | STEL          | Peak          | Notes         |
|------------------------------------------------------|-------------------|---------------|---------|---------------|---------------|---------------|
| US OSHA Permissible Exposure Limits (PELs) Table Z-1 | SULFURIC ACID 40% | Sulfuric acid | 1 mg/m3 | Not Available | Not Available | Not Available |
| US NIOSH Recommended Exposure Limits (RELs)          | SULFURIC ACID 40% | Sulfuric acid | 1 mg/m3 | Not Available | Not Available | Not Available |

Emergency Limits

| Ingredient        | TEEL-1        | TEEL-2        | TEEL-3        |
|-------------------|---------------|---------------|---------------|
| SULFURIC ACID 40% | Not Available | Not Available | Not Available |

| Ingredient        | Original IDLH | Revised IDLH  |
|-------------------|---------------|---------------|
| SULFURIC ACID 40% | 15 mg/m3      | Not Available |

MATERIAL DATA

Exposure controls

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appropriate engineering controls | <p>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.</p> <p>The basic types of engineering controls are:</p> <p>Process controls which involve changing the way a job activity or process is done to reduce the risk.</p> <p>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.</p> <p>Employers may need to use multiple types of controls to prevent employee overexposure.</p> |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## API pH Down

Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection.

An approved self contained breathing apparatus (SCBA) may be required in some situations.

Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

| Type of Contaminant:                                                                                                                                                                                                | Air Speed:                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| solvent, vapours, degreasing etc., evaporating from tank (in still air).                                                                                                                                            | 0.25-0.5 m/s<br>(50-100 f/min.) |
| aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) | 0.5-1 m/s (100-200 f/min.)      |
| direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)                                                      | 1-2.5 m/s (200-500 f/min.)      |
| grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).                                                                | 2.5-10 m/s<br>(500-2000 f/min.) |

Within each range the appropriate value depends on:

| Lower end of the range                                     | Upper end of the range           |
|------------------------------------------------------------|----------------------------------|
| 1: Room air currents minimal or favourable to capture      | 1: Disturbing room air currents  |
| 2: Contaminants of low toxicity or of nuisance value only. | 2: Contaminants of high toxicity |
| 3: Intermittent, low production.                           | 3: High production, heavy use    |
| 4: Large hood or large air mass in motion                  | 4: Small hood-local control only |

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

#### Individual protection measures, such as personal protective equipment



#### Eye and face protection

- ▶ Safety glasses with unperforated side shields may be used where continuous eye protection is desirable, as in laboratories; spectacles are not sufficient where complete eye protection is needed such as when handling bulk-quantities, where there is a danger of splashing, or if the material may be under pressure.
- ▶ Chemical goggles. Whenever there is a danger of the material coming in contact with the eyes; goggles must be properly fitted. [AS/NZS 1337.1, EN166 or national equivalent]
- ▶ Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary protection of eyes; these afford face protection.
- ▶ Alternatively a gas mask may replace splash goggles and face shields.
- ▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

#### Skin protection

See Hand protection below

#### Hands/feet protection

- ▶ Elbow length PVC gloves
- ▶ When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.

#### Body protection

See Other protection below

#### Other protection

- ▶ Overalls.
- ▶ PVC Apron.
- ▶ PVC protective suit may be required if exposure severe.
- ▶ Eyewash unit.
- ▶ Ensure there is ready access to a safety shower.

### Respiratory protection

Type E-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

## SECTION 9 Physical and chemical properties

### Information on basic physical and chemical properties

|                                                                  |                                                      |                                                                       |                |
|------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------|----------------|
| <b>Appearance</b>                                                | Clear acidic liquid with no odour; mixes with water. |                                                                       |                |
| <b>Physical state</b>                                            | Liquid                                               | <b>Relative density (Water = 1)</b>                                   | 1.06           |
| <b>Odour</b>                                                     | Not Available                                        | <b>Partition coefficient n-octanol / water</b>                        | Not Available  |
| <b>Odour threshold</b>                                           | Not Available                                        | <b>Auto-ignition temperature (°C)</b>                                 | Not Applicable |
| <b>pH (as supplied)</b>                                          | <1                                                   | <b>Decomposition temperature (°C)</b>                                 | Not Available  |
| <b>Melting point / freezing point (°C)</b>                       | Not Available                                        | <b>Viscosity (mm<sup>2</sup>/s)</b>                                   | Not Available  |
| <b>Initial boiling point and boiling range (°C)</b>              | 103.33                                               | <b>Molecular weight (g/mol)</b>                                       | Not Applicable |
| <b>Flash point (°C)</b>                                          | Not Applicable                                       | <b>Taste</b>                                                          | Not Available  |
| <b>Evaporation rate</b>                                          | <1 BuAC = 1                                          | <b>Explosive properties</b>                                           | Not Available  |
| <b>Flammability</b>                                              | Not Applicable                                       | <b>Oxidising properties</b>                                           | Not Available  |
| <b>Upper Explosive Limit (%)</b>                                 | Not Applicable                                       | <b>Surface Tension (dyn/cm or mN/m)</b>                               | Not Available  |
| <b>Lower Explosive Limit (%)</b>                                 | Not Applicable                                       | <b>Volatile Component (%vol)</b>                                      | Not Available  |
| <b>Vapour pressure (kPa)</b>                                     | <0.04 @ 25 deg C                                     | <b>Gas group</b>                                                      | Not Available  |
| <b>Solubility in water</b>                                       | Miscible                                             | <b>pH as a solution (1%)</b>                                          | Not Available  |
| <b>Vapour density (Air = 1)</b>                                  | 3.4                                                  | <b>VOC g/L</b>                                                        | Not Available  |
| <b>Heat of Combustion (kJ/g)</b>                                 | Not Available                                        | <b>Ignition Distance (cm)</b>                                         | Not Available  |
| <b>Flame Height (cm)</b>                                         | Not Available                                        | <b>Flame Duration (s)</b>                                             | Not Available  |
| <b>Enclosed Space Ignition Time Equivalent (s/m<sup>3</sup>)</b> | Not Available                                        | <b>Enclosed Space Ignition Deflagration Density (g/m<sup>3</sup>)</b> | Not Available  |
| <b>Nanoform Solubility</b>                                       | Not Available                                        | <b>Nanoform Particle Characteristics</b>                              | Not Available  |
| <b>Particle Size</b>                                             | Not Available                                        |                                                                       |                |

## SECTION 10 Stability and reactivity

|                                           |                                                                                                                                                                                                                                                               |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | See section 7                                                                                                                                                                                                                                                 |
| <b>Chemical stability</b>                 | <ul style="list-style-type: none"> <li>▶ Contact with alkaline material liberates heat</li> <li>▶ Unstable in the presence of incompatible materials.</li> <li>▶ Product is considered stable.</li> <li>▶ Hazardous polymerisation will not occur.</li> </ul> |
| <b>Possibility of hazardous reactions</b> | See section 7                                                                                                                                                                                                                                                 |
| <b>Conditions to avoid</b>                | See section 7                                                                                                                                                                                                                                                 |
| <b>Incompatible materials</b>             | See section 7                                                                                                                                                                                                                                                 |
| <b>Hazardous decomposition products</b>   | See section 5                                                                                                                                                                                                                                                 |

## SECTION 11 Toxicological information

### Information on toxicological effects

|                                             |                                                                                         |
|---------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>a) Acute Toxicity</b>                    | There is sufficient evidence to classify this material as acutely toxic.                |
| <b>b) Skin Irritation/Corrosion</b>         | There is sufficient evidence to classify this material as skin corrosive or irritating. |
| <b>c) Serious Eye Damage/Irritation</b>     | There is sufficient evidence to classify this material as eye damaging or irritating    |
| <b>d) Respiratory or Skin sensitisation</b> | Based on available data, the classification criteria are not met.                       |
| <b>e) Mutagenicity</b>                      | Based on available data, the classification criteria are not met.                       |
| <b>f) Carcinogenicity</b>                   | There is sufficient evidence to classify this material as carcinogenic                  |

## API pH Down

|                                    |                                                                   |
|------------------------------------|-------------------------------------------------------------------|
| <b>g) Reproductivity</b>           | Based on available data, the classification criteria are not met. |
| <b>h) STOT - Single Exposure</b>   | Based on available data, the classification criteria are not met. |
| <b>i) STOT - Repeated Exposure</b> | Based on available data, the classification criteria are not met. |
| <b>j) Aspiration Hazard</b>        | Based on available data, the classification criteria are not met. |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhaled</b>      | Limited evidence or practical experience suggests that the material may produce irritation of the respiratory system, in a significant number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.    |
| <b>Ingestion</b>    | The material is not classified for acute toxicity via the oral route under Regulation (EC) No 1272/2008 (CLP), as amended. Nevertheless, adverse systemic effects have been identified following exposure of animals by at least one other route. Good hygiene practice requires that exposure be kept to a minimum.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Skin Contact</b> | The material may produce severe skin irritation after prolonged or repeated exposure, and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) thickening of the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis. Prolonged contact is unlikely, given the severity of response, but repeated exposures may produce severe ulceration. Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. |
| <b>Eye</b>          | The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Chronic</b>      | Principal routes of exposure are usually by skin contact and eye contact<br>Prolonged or continuous skin contact with the liquid may cause defatting with drying, cracking, irritation and dermatitis following.<br><br>As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.                                                                                                                                                                                                                                                                                                                 |

|                          |                                                     |                                         |
|--------------------------|-----------------------------------------------------|-----------------------------------------|
| <b>API pH Down</b>       | <b>TOXICITY</b>                                     | <b>IRRITATION</b>                       |
|                          | Not Available                                       | Not Available                           |
| <b>SULFURIC ACID 40%</b> | <b>TOXICITY</b>                                     | <b>IRRITATION</b>                       |
|                          | Inhalation (Mouse) LC50: 0.85 mg/l4h <sup>[1]</sup> | Eye (Rodent - rabbit): 250ug - Severe   |
|                          | Oral (Rat) LD50: 2140 mg/kg <sup>[2]</sup>          | Eye (Rodent - rabbit): 5mg/30S - Severe |

**Legend:** 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SULFURIC ACID 40%</b> | Occupational exposures to strong inorganic acid mists of sulfuric acid:<br>Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.<br><b>WARNING:</b> For inhalation exposure <u>ONLY</u> : This substance has been classified by the IARC as Group 1: <b>CARCINOGENIC TO HUMANS</b> |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                          |   |                                 |   |
|------------------------------------------|---|---------------------------------|---|
| <b>Acute Toxicity</b>                    | ✓ | <b>Carcinogenicity</b>          | ✓ |
| <b>Skin Irritation/Corrosion</b>         | ✓ | <b>Reproductivity</b>           | ✗ |
| <b>Serious Eye Damage/Irritation</b>     | ✓ | <b>STOT - Single Exposure</b>   | ✗ |
| <b>Respiratory or Skin sensitisation</b> | ✗ | <b>STOT - Repeated Exposure</b> | ✗ |
| <b>Mutagenicity</b>                      | ✗ | <b>Aspiration Hazard</b>        | ✗ |

Continued...

Legend: ✖ – Data either not available or does not fill the criteria for classification  
✔ – Data available to make classification

SECTION 12 Ecological information

Toxicity

| API pH Down | Endpoint      | Test Duration (hr) | Species       | Value         | Source        |
|-------------|---------------|--------------------|---------------|---------------|---------------|
|             | Not Available | Not Available      | Not Available | Not Available | Not Available |

| SULFURIC ACID 40% | Endpoint  | Test Duration (hr) | Species                       | Value     | Source |
|-------------------|-----------|--------------------|-------------------------------|-----------|--------|
|                   | EC50      | 72h                | Algae or other aquatic plants | >100mg/l  | 2      |
|                   | EC50      | 48h                | Crustacea                     | 42.5mg/l  | 1      |
|                   | NOEC(ECx) | 1560h              | Fish                          | 0.025mg/l | 2      |
|                   | LC50      | 96h                | Fish                          | 8mg/l     | 1      |
|                   | ErC50     | 72h                | Algae or other aquatic plants | >100mg/l  | 2      |

Legend: *Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. US EPA, Ecotox database - Aquatic Toxicity Data 4. ECETOC Aquatic Hazard Assessment Data 5. NITE (Japan) - Bioconcentration Data 6. METI (Japan) - Bioconcentration Data 7. Vendor Data 8. User defined data*

Prevent, by any means available, spillage from entering drains or water courses.  
DO NOT discharge into sewer or waterways.

Persistence and degradability

| Ingredient | Persistence: Water/Soil               | Persistence: Air                      |
|------------|---------------------------------------|---------------------------------------|
|            | No Data available for all ingredients | No Data available for all ingredients |

Bioaccumulative potential

| Ingredient        | Bioaccumulation     |
|-------------------|---------------------|
| SULFURIC ACID 40% | LOW (LogKOW = -2.2) |

Mobility in soil

| Ingredient | Mobility                              |
|------------|---------------------------------------|
|            | No Data available for all ingredients |

Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

SECTION 13 Disposal considerations

Waste treatment methods

| Product / Packaging disposal | <ul style="list-style-type: none"><li>Recycle wherever possible.</li><li>Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.</li><li>Treat and neutralise at an approved treatment plant. Treatment should involve: Neutralisation with soda-ash or soda-lime followed by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material).</li><li>Decontaminate empty containers with 5% aqueous sodium hydroxide or soda ash, followed by water. Observe all label safeguards until containers are cleaned and destroyed.</li><li>Containers may still present a chemical hazard/ danger when empty.</li><li>Return to supplier for reuse/ recycling if possible.</li></ul> |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              | Otherwise: <ul style="list-style-type: none"><li>If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.</li><li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

SECTION 14 Transport information

Labels Required

|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
|                  |  |
| Marine Pollutant | NO                                                                                |

Shipping container, transport vehicle placarding, and labeling may vary from the below information. This depends on the quantity shipped, the applicability of excepted quantity requirements, limited quantity requirements, and/or special provisions according to US DOT, IATA and IMDG regulations. In case of reshipment, it is the responsibility of the shipper to determine the appropriate labels and markings in accordance with applicable transport regulations.

Land transport (DOT)

|                                         |                                                        |                    |  |
|-----------------------------------------|--------------------------------------------------------|--------------------|--|
| 14.1<br>UN number or ID<br>number       | 1760                                                   |                    |  |
| 14.2<br>UN proper shipping<br>name      | Corrosive liquids, n.o.s. (contains SULFURIC ACID 40%) |                    |  |
| 14.3<br>Transport hazard<br>class(es)   | Class                                                  | 8                  |  |
|                                         | Subsidiary Hazard                                      | Not Applicable     |  |
| 14.4<br>Packing group                   | III                                                    |                    |  |
| 14.5<br>Environmental<br>hazard         | Not Applicable                                         |                    |  |
| 14.6<br>Special precautions<br>for user | Hazard Label                                           | 8                  |  |
|                                         | Special provisions                                     | IB3, T7, TP1, TP28 |  |
|                                         | Limited quantity                                       | 5 L                |  |

Air transport (ICAO-IATA / DGR)

|                                    |                                                           |                |  |
|------------------------------------|-----------------------------------------------------------|----------------|--|
| 14.1. UN number                    | 1760                                                      |                |  |
| 14.2 UN proper shipping name       | Corrosive liquid, n.o.s. * (contains SULFURIC ACID 40%)   |                |  |
| 14.3. Transport hazard class(es)   | ICAO/IATA Class                                           | 8              |  |
|                                    | ICAO / IATA Subsidiary Hazard                             | Not Applicable |  |
|                                    | ERG Code                                                  | 8L             |  |
| 14.4. Packing group                | III                                                       |                |  |
| 14.5 Environmental hazard          | Not Applicable                                            |                |  |
| 14.6. Special precautions for user | Special provisions                                        | A3 A803        |  |
|                                    | Cargo Only Packing Instructions                           | 856            |  |
|                                    | Cargo Only Maximum Qty / Pack                             | 60 L           |  |
|                                    | Passenger and Cargo Packing Instructions                  | 852            |  |
|                                    | Passenger and Cargo Maximum Qty / Pack                    | 5 L            |  |
|                                    | Passenger and Cargo Limited Quantity Packing Instructions | Y841           |  |
|                                    | Passenger and Cargo Limited Maximum Qty / Pack            | 1 L            |  |

Sea transport (IMDG-Code / GGVSee)

|                                    |                                                       |                |  |
|------------------------------------|-------------------------------------------------------|----------------|--|
| 14.1. UN number                    | 1760                                                  |                |  |
| 14.2 UN proper shipping name       | CORROSIVE LIQUID, N.O.S. (contains SULFURIC ACID 40%) |                |  |
| 14.3. Transport hazard class(es)   | IMDG Class                                            | 8              |  |
|                                    | IMDG Subsidiary Hazard                                | Not Applicable |  |
| 14.4. Packing group                | III                                                   |                |  |
| 14.5 Environmental hazard          | Not Applicable                                        |                |  |
| 14.6. Special precautions for user | EMS Number                                            | F-A, S-B       |  |
|                                    | Special provisions                                    | 223 274        |  |

Limited Quantities

5 L

14.7. Maritime transport in bulk according to IMO instruments

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name      | Group          |
|-------------------|----------------|
| SULFURIC ACID 40% | Not Applicable |

14.7.3. Transport in bulk in accordance with the IGC Code

| Product name      | Ship Type      |
|-------------------|----------------|
| SULFURIC ACID 40% | Not Applicable |

SECTION 15 Regulatory information

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

SULFURIC ACID 40% is found on the following regulatory lists

- Chemical Footprint Project - Chemicals of High Concern List
- EAEU Narcotic drugs, psychotropic substances and their precursors - II. Precursors of narcotic drugs and psychotropic substances - List II (Russian)
- International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs
- International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans
- US - Massachusetts - Right To Know Listed Chemicals
- US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Carcinogens
- US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Corrosives
- US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Reactive Materials
- US - New Jersey Right to Know Hazardous Substances
- US - Pennsylvania - Hazardous Substance List
- US CWA (Clean Water Act) - List of Hazardous Substances
- US DOE Temporary Emergency Exposure Limits (TEELs)
- US Drug Enforcement Administration (DEA) List I and II Regulated Chemicals
- US EPA Pesticide Chemical Search - Antimicrobial
- US EPA Pesticide Chemical Search - Conventional Chemical
- US EPCRA Section 313 Chemical List
- US National Toxicology Program (NTP) 15th Report Part A Known to be Human Carcinogens
- US New York City Community Right-to-Know: List of Hazardous Substances
- US NIOSH Recommended Exposure Limits (RELs)
- US OSHA Permissible Exposure Limits (PELs) Table Z-1
- US SARA Section 302 Extremely Hazardous Substances (40 CFR Part 355, Appendix A)
- US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

Additional Regulatory Information

Not Applicable

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

|                                                 |     |
|-------------------------------------------------|-----|
| Flammable (Gases, Aerosols, Liquids, or Solids) | No  |
| Gas under pressure                              | No  |
| Explosive                                       | No  |
| Self-heating                                    | No  |
| Pyrophoric (Liquid or Solid)                    | No  |
| Pyrophoric Gas                                  | No  |
| Corrosive to metal                              | Yes |
| Oxidizer (Liquid, Solid or Gas)                 | No  |

Continued...

|                                                              |     |
|--------------------------------------------------------------|-----|
| Organic Peroxide                                             | No  |
| Self-reactive                                                | No  |
| In contact with water emits flammable gas                    | No  |
| Combustible Dust                                             | No  |
| Carcinogenicity                                              | Yes |
| Acute toxicity (any route of exposure)                       | Yes |
| Reproductive toxicity                                        | No  |
| Skin Corrosion or Irritation                                 | Yes |
| Respiratory or Skin Sensitization                            | No  |
| Serious eye damage or eye irritation                         | Yes |
| Specific target organ toxicity (single or repeated exposure) | No  |
| Aspiration Hazard                                            | No  |
| Germ cell mutagenicity                                       | No  |
| Simple Asphyxiant                                            | No  |
| Hazards Not Otherwise Classified                             | No  |

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

| Name              | Reportable Quantity in Pounds (lb) | Reportable Quantity in kg |
|-------------------|------------------------------------|---------------------------|
| SULFURIC ACID 40% | 1000                               | 454                       |

US. EPCRA Section 313 Toxic Release Inventory (TRI) (40 CFR 372)

This product contains the following EPCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know-Act of 1986 (40 CFR 372):

| CAS No    | De Minimis Limit | Name                                                                                                           |
|-----------|------------------|----------------------------------------------------------------------------------------------------------------|
| 7664-93-9 | 1                | Sulfuric acid (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size) |

*This information must be included in all SDSs that are copied and distributed for this material.*

Additional Federal Regulatory Information

Not Applicable

State Regulations

US. California Proposition 65

None Reported

Additional State Regulatory Information

Not Applicable

National Inventory Status

| National Inventory                              | Status                                                                                  |
|-------------------------------------------------|-----------------------------------------------------------------------------------------|
| Australia - AIIC / Australia Non-Industrial Use | Yes                                                                                     |
| Canada - DSL                                    | Yes                                                                                     |
| Canada - NDSL                                   | No (SULFURIC ACID 40%)                                                                  |
| China - IECSC                                   | Yes                                                                                     |
| Europe - EINEC / ELINCS / NLP                   | Yes                                                                                     |
| Japan - ENCS                                    | Yes                                                                                     |
| Korea - KECI                                    | Yes                                                                                     |
| New Zealand - NZIoC                             | Yes                                                                                     |
| Philippines - PICCS                             | Yes                                                                                     |
| USA - TSCA                                      | All chemical substances in this product have been designated as TSCA Inventory 'Active' |
| Taiwan - TCSI                                   | Yes                                                                                     |

Continued...

| National Inventory                                   | Status                                                                                                                                                                                                          |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mexico - INSQ                                        | Yes                                                                                                                                                                                                             |
| Vietnam - NCI                                        | Yes                                                                                                                                                                                                             |
| Russia - FBEPH                                       | Yes                                                                                                                                                                                                             |
| UAE - Control List<br>(Banned/Restricted Substances) | Yes                                                                                                                                                                                                             |
| Legend:                                              | <b>Yes = All CAS declared ingredients are on the inventory</b><br><b>No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.</b> |

SECTION 16 Other information

|               |            |
|---------------|------------|
| Revision Date | 08/28/2026 |
| Initial Date  | 09/06/2005 |

SDS Version Summary

| Version | Date of Update | Sections Updated                                                                                                                                                                                                                        |
|---------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10.1    | 08/28/2026     | Hazards identification - Classification, Identification of the substance / mixture and of the company / undertaking - Supplier Information, Identification of the substance / mixture and of the company / undertaking - Synonyms, Name |
| 10.2    | 08/31/2026     | Hazards identification - Classification, Identification of the substance / mixture and of the company / undertaking - Supplier Information, Identification of the substance / mixture and of the company / undertaking - Synonyms, Name |

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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