

**DIVOSHEEN 209 VA4**

Revision: 2016-07-28

Version: 01.0

**SECTION 1: Identification of the substance/mixture and supplier**

**1.1 Product identifier**

**Product name** DIVOSHEEN 209 VA4

**1.2 Recommended use and restrictions on use**

**Identified uses:**

CIP detergent descaler

**Restrictions of use:**

Uses other than those identified are not recommended

**1.3 Details of the supplier**

Diversey Australia Pty. Limited  
29 Chifley St, Smithfield, NSW, 2164, Australia  
Telephone: 1800 647 779 (toll free)  
Fax: (02) 9725 5767  
Email: aucustserv@sealedair.com  
Website: <http://www.sealedair.com/>

**1.4 Emergency telephone number**

Call 1800 033 111 (24hrs)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Skin corrosion, Category 1A  
Corrosive to the respiratory tract, AUH071  
Corrosive to metals, Category 1

**2.2 Label elements**



**Signal word:** Danger

**Hazard statements:**

H314 - Causes severe skin burns and eye damage.  
AUH071 - Corrosive to the respiratory tract.  
H290 - May be corrosive to metals.

**Prevention statement(s):**

P233 - Keep container tightly closed.  
P234 - Keep only in original container.  
P260 - Do not breathe vapours or spray.  
P264 - Wash face, hands and any exposed skin thoroughly after handling.  
P280 - Wear protective gloves, protective clothing and eye or face protection.

**Response statement(s):**

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
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 CENTRE, doctor or physician.  
P321 - Specific treatment (see supplemental first aid instructions on this label).  
P363 - Wash contaminated clothing before reuse.  
P390 - Absorb spillage to prevent material damage.

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**Storage statement(s):**

P405 - Store locked up.

P406 - Store in corrosive-resistant container with a resistant inner liner.

**Disposal statement(s):**

P501 - Dispose of unused content as chemical waste.

**2.3 Other hazards**

No other hazards known.

**2.4 Classification diluted product**

Recommended maximum concentration (%): 13

Corrosive to the respiratory tract, AUH071

Skin irritation, Category 2

Serious eye damage, Category 1

**2.5 Label elements diluted product**

Danger.

AUH071 - Corrosive to the respiratory tract.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

P233 - Keep container tightly closed.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P280 - Wear protective gloves, protective clothing and eye or face protection.

P332 + P313 - If skin irritation occurs: Get medical advice or attention.

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 CENTRE, doctor or physician.

P321 - Specific treatment (see supplemental first aid instructions on this label).

P362 - Take off contaminated clothing.

P501 - Dispose of unused content as chemical waste.

**SECTION 3: Composition/information on ingredients****3.1 Substances / Mixtures**

| Ingredient(s)   | CAS number | EC number | Classification   | Weight percent |
|-----------------|------------|-----------|--|----------------|
| nitric acid     | 7697-37-2  | 231-714-2 | Ox. Liq. 2 (H272)<br>Skin Corr. 1A (H314)<br>AUH071<br>Met. Corr. 1 (H290) | 30-60          |
| phosphoric acid | 7664-38-2  | 231-633-2 | Skin Corr. 1B (H314)<br>Met. Corr. 1 (H290)                                | 3-10           |

**SECTION 4: First aid measures****4.1 Description of first aid measures****Inhalation:**

Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTRE, doctor or physician.

**Skin contact:**

Take off immediately all contaminated clothing and wash it before re-use. Immediately call a POISON CENTRE, doctor or physician.

**Eye contact:**

Immediately rinse eyes cautiously with lukewarm water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.

**Ingestion:**

Rinse mouth. Immediately drink 1 glass of water. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.

**Self-protection of first aider:**

Consider personal protective equipment as indicated in subsection 8.2.

**First aid facilities:**

Shower and eyewash facilities should be considered in a workplace where necessary.

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

|                      |  |
|----------------------|--|
| <b>Inhalation:</b>   | Corrosive to the respiratory tract.  |
| <b>Skin contact:</b> | Causes severe burns.   |
| <b>Eye contact:</b>  | Causes severe or permanent damage.   |
| <b>Ingestion:</b>    | Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach. |

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

**Poison Information Center:** Call 13 11 26 (Australia Wide).

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

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

No special hazards known.

**5.3 Advice for firefighters**

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

**5.4 Hazchem code**

2R

2 - Fine water spray.

R - Liquid-tight chemical protective clothing and breathing apparatus. Dilute.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Do not breathe dust or vapour. Wear suitable protective clothing, gloves and eye/face protection.

**6.2 Environmental precautions**

Do not allow to enter drainage system, surface or ground water. Dilute with plenty of water.

**6.3 Methods and material for containment and cleaning up**

Use neutralising agent. Absorb onto dry sand or similar inert material. Ensure adequate ventilation.

**6.4 Reference to other sections**

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Measures to prevent fire and explosions:**

No special precautions required.

**Measures to prevent aerosol and dust generation:**

Avoid formation of aerosol.

**Measures required to protect the environment:**

For environmental exposure controls see subsection 8.2.

**Advices on general occupational hygiene:**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Sealed Air. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with skin and eyes. Do not breathe vapours or spray. Use only with adequate ventilation.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in accordance with local and national regulations. Keep only in original container. Store in a closed container.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

**7.3 Specific end use(s)**

No specific advice for end use available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

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## Workplace exposure limits

Air limit values, if available:

| Ingredient(s)   | Long term value(s)<br>(TWA)    | Short term value(s)<br>(STEL) | Peak value(s) |
|-----------------|--------------------------------|-------------------------------|---------------|
| nitric acid     | 2 ppm<br>5.2 mg/m <sup>3</sup> | 4 ppm<br>10 mg/m <sup>3</sup> |               |
| phosphoric acid | 1 mg/m <sup>3</sup>            | 3 mg/m <sup>3</sup>           |               |

Biological limit values, if available:

## 8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet.  
If available, please refer to the product information sheet for application and handling instructions.  
Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

Covering activities such as filling and transfer of product to application equipment, flasks or buckets

**Appropriate engineering controls:** If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.

**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible Train personnel

## Personal protective equipment

**Eye / face protection:** Safety glasses or goggles (EN 166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.

**Hand protection:** Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: &gt;= 480 min

Material thickness: &gt;= 0.7 mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: &gt;= 30 min Material thickness: &gt;= 0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

**Body protection:** Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).

**Respiratory protection:** Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted or unneutralised.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (%): 13

**Appropriate engineering controls:** Use only in well ventilated areas.

**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

## Personal protective equipment

**Eye / face protection:** Goggles (EN 166).

**Hand protection:** Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: &gt;= 480 min

Material thickness: &gt;= 0.7 mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: &gt;= 30 min Material thickness: &gt;= 0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

**Body protection:** Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).

**Respiratory protection:** Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

**Environmental exposure controls:** No special requirements under normal use conditions.

## SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

## Method / remark

Physical State: Liquid

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**Colour:** Clear, Colourless  
**Odour:** Product specific  
**Odour threshold:** Not applicable  
**pH:** < 1 (neat)  
**Dilution pH:** < 2 (1%)  
**Melting point/freezing point (°C):** Not determined  
**Initial boiling point and boiling range (°C):** Not determined  
**Flash point (°C):** Not applicable.  
**Sustained combustion:** Not applicable.  
**Evaporation rate:** Not determined  
**Flammability (solid, gas):** Not determined  
**Upper/lower flammability limit (%):** Not determined  
**Vapour pressure:** Not determined  
**Vapour density:** Not determined  
**Relative density:** 1.27 g/cm<sup>3</sup> (20 °C)  
**Solubility in / Miscibility with Water:** Fully miscible  
**Autoignition temperature:** Not determined  
**Decomposition temperature:** Not applicable.  
**Viscosity:** Not determined  
**Explosive properties:** Not explosive.  
**Oxidising properties:** Not oxidising

## 9.2 Other information

**Surface tension (N/m):** Not determined

**Corrosion to metals:** Corrosive

Weight of evidence

## SECTION 10: Stability and reactivity

## 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

## 10.2 Chemical stability

Stable under normal storage and use conditions.

## 10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

## 10.4 Conditions to avoid

None known under normal storage and use conditions.

## 10.5 Incompatible materials

Reacts with alkali and metals. Keep away from products containing chlorine-based bleaching agents or sulphites.

## 10.6 Hazardous decomposition products

None known under normal storage and use conditions.

## SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

Mixture data:.

## Relevant calculated ATE(s):

ATE - Oral (mg/kg): >5000

Substance data, where relevant and available, are listed below:.

## Acute toxicity

Acute oral toxicity

| Ingredient(s)   | Endpoint         | Value (mg/kg)     | Species | Method                 | Exposure time (h) |
|-----------------|------------------|-------------------|---------|------------------------|-------------------|
| nitric acid     |                  | No data available |         |                        |                   |
| phosphoric acid | LD <sub>50</sub> | 2600              | Rat     | OECD 423 (EU B.1 tris) |                   |

Acute dermal toxicity

| Ingredient(s)   | Endpoint         | Value (mg/kg)     | Species | Method           | Exposure time (h) |
|-----------------|------------------|-------------------|---------|------------------|-------------------|
| nitric acid     |                  | No data available |         |                  |                   |
| phosphoric acid | LD <sub>50</sub> | 2740              | Rabbit  | Method not given |                   |

## Acute inhalative toxicity

| Ingredient(s)   | Endpoint         | Value (mg/l) | Species | Method            | Exposure time (h) |
|-----------------|------------------|--------------|---------|-------------------|-------------------|
| nitric acid     | LC <sub>50</sub> | 1.56         | Rat     | OECD 403 (EU B.2) |                   |
| phosphoric acid | LC <sub>50</sub> | 850          | Rat     | Method not given  | 2                 |

## Irritation and corrosivity

## Skin irritation and corrosivity

| Ingredient(s)   | Result    | Species | Method            | Exposure time |
|-----------------|-----------|---------|-------------------|---------------|
| nitric acid     | Corrosive | Rabbit  | Method not given  |               |
| phosphoric acid | Corrosive | Rabbit  | OECD 404 (EU B.4) |               |

## Eye irritation and corrosivity

| Ingredient(s)   | Result        | Species | Method           | Exposure time |
|-----------------|---------------|---------|------------------|---------------|
| nitric acid     | Corrosive     |         | Method not given |               |
| phosphoric acid | Severe damage | Rabbit  | Method not given |               |

## Respiratory tract irritation and corrosivity

| Ingredient(s)   | Result            | Species | Method | Exposure time |
|-----------------|-------------------|---------|--------|---------------|
| nitric acid     | No data available |         |        |               |
| phosphoric acid | No data available |         |        |               |

## Sensitisation

## Sensitisation by skin contact

| Ingredient(s)   | Result            | Species | Method           | Exposure time (h) |
|-----------------|-------------------|---------|------------------|-------------------|
| nitric acid     | No data available |         |                  |                   |
| phosphoric acid | Not sensitising   | Human   | Human experience |                   |

## Sensitisation by inhalation

| Ingredient(s)   | Result            | Species | Method | Exposure time |
|-----------------|-------------------|---------|--------|---------------|
| nitric acid     | No data available |         |        |               |
| phosphoric acid | No data available |         |        |               |

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

## Mutagenicity

| Ingredient(s)   | Result (in-vitro)                                   | Method (in-vitro)  | Result (in-vivo)  | Method (in-vivo) |
|-----------------|---|--|-------------------|------------------|
| nitric acid     | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13)                                    | No data available |                  |
| phosphoric acid | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) OECD 473 OECD 476 (Mouse lymphoma) | No data available |                  |

## Carcinogenicity

| Ingredient(s)   | Effect   |
|-----------------|--|
| nitric acid     | No evidence for carcinogenicity, negative test results |
| phosphoric acid | No data available                                      |

## Toxicity for reproduction

| Ingredient(s)   | Endpoint | Specific effect        | Value (mg/kg bw/d) | Species | Method         | Exposure time | Remarks and other effects reported   |
|-----------------|----------|------------------------|--------------------|---------|----------------|---------------|--|
| nitric acid     | NOAEL    | Developmental toxicity | 1500               | Rat     | OECD 422, oral | 28 day(s)     | Not toxic for reproduction   |
| phosphoric acid | NOAEL    | Developmental toxicity | 410                | Rat     | OECD 422, oral | 10 day(s)     | No evidence for reproductive toxicity No evidence for developmental toxicity |

## Repeated dose toxicity

## Sub-acute or sub-chronic oral toxicity

| Ingredient(s)   | Endpoint | Value (mg/kg bw/d) | Species | Method         | Exposure time (days) | Specific effects and organs affected |
|-----------------|----------|--------------------|---------|----------------|----------------------|--------------------------------------|
| nitric acid     | NOAEL    | 1500               | Rat     | OECD 422, oral | 28                   |                                      |
| phosphoric acid | NOAEL    | 250                | Rat     | OECD 422, oral |                      |                                      |

## Sub-chronic dermal toxicity

| Ingredient(s)   | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|-----------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| nitric acid     |          | No data available  |         |        |                      |                                      |
| phosphoric acid |          | No data            |         |        |                      |                                      |

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|  |  |           |  |  |  |  |
|--|--|-----------|--|--|--|--|
|  |  | available |  |  |  |  |
|--|--|-----------|--|--|--|--|

## Sub-chronic inhalation toxicity

| Ingredient(s)   | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|-----------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| nitric acid     |          | No data available  |         |        |                      |                                      |
| phosphoric acid |          | No data available  |         |        |                      |                                      |

## Chronic toxicity

| Ingredient(s)   | Exposure route | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time | Specific effects and organs affected | Remark |
|-----------------|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
| nitric acid     |                |          | No data available  |         |        |               |                                      |        |
| phosphoric acid |                |          | No data available  |         |        |               |                                      |        |

## STOT-single exposure

| Ingredient(s)   | Affected organ(s) |
|-----------------|-------------------|
| nitric acid     | No data available |
| phosphoric acid | No data available |

## STOT-repeated exposure

| Ingredient(s)   | Affected organ(s) |
|-----------------|-------------------|
| nitric acid     | No data available |
| phosphoric acid | No data available |

## Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

## Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

## SECTION 12: Ecological information

## 12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

## Aquatic short-term toxicity

## Aquatic short-term toxicity - fish

| Ingredient(s)   | Endpoint         | Value (mg/l) | Species                 | Method           | Exposure time (h) |
|-----------------|------------------|--------------|-------------------------|------------------|-------------------|
| nitric acid     | LC <sub>50</sub> | 12.5         | <i>Gambusia affinis</i> | Method not given | 96                |
| phosphoric acid | LC <sub>50</sub> | 138          | <i>Gambusia affinis</i> | Method not given | 96                |

## Aquatic short-term toxicity - crustacea

| Ingredient(s)   | Endpoint         | Value (mg/l) | Species                     | Method             | Exposure time (h) |
|-----------------|------------------|--------------|-----------------------------|--------------------|-------------------|
| nitric acid     | EC <sub>50</sub> | 8609         | <i>Daphnia magna Straus</i> | Non guideline test | 24                |
| phosphoric acid | EC <sub>50</sub> | > 100        | <i>Daphnia magna Straus</i> | OECD 202           | 48                |

## Aquatic short-term toxicity - algae

| Ingredient(s)   | Endpoint         | Value (mg/l)      | Species                        | Method   | Exposure time (h) |
|-----------------|------------------|-------------------|--------------------------------|----------|-------------------|
| nitric acid     |                  | No data available |                                |          | -                 |
| phosphoric acid | EC <sub>50</sub> | > 100             | <i>Desmodesmus subspicatus</i> | OECD 201 | 72                |

## Aquatic short-term toxicity - marine species

| Ingredient(s)   | Endpoint | Value (mg/l)      | Species | Method | Exposure time (days) |
|-----------------|----------|-------------------|---------|--------|----------------------|
| nitric acid     |          | No data available |         |        | -                    |
| phosphoric acid |          | No data available |         |        | -                    |

Impact on sewage plants - toxicity to bacteria

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| Ingredient(s)   | Endpoint         | Value (mg/l)      | Inoculum         | Method           | Exposure time |
|-----------------|------------------|-------------------|------------------|------------------|---------------|
| nitric acid     |                  | No data available |                  |                  |               |
| phosphoric acid | EC <sub>50</sub> | 270               | Activated sludge | Method not given |               |

**Aquatic long-term toxicity**

Aquatic long-term toxicity - fish

| Ingredient(s)   | Endpoint         | Value (mg/l)      | Species                    | Method           | Exposure time | Effects observed |
|-----------------|------------------|-------------------|----------------------------|------------------|---------------|------------------|
| nitric acid     | LD <sub>50</sub> | 8226              | <i>Oncorhynchus mykiss</i> | Method not given | 96 hour(s)    |                  |
| phosphoric acid |                  | No data available |                            |                  |               |                  |

Aquatic long-term toxicity - crustacea

| Ingredient(s)   | Endpoint | Value (mg/l)      | Species | Method | Exposure time | Effects observed |
|-----------------|----------|-------------------|---------|--------|---------------|------------------|
| nitric acid     |          | No data available |         |        |               |                  |
| phosphoric acid |          | No data available |         |        |               |                  |

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

| Ingredient(s)   | Endpoint | Value (mg/kg dw sediment) | Species | Method | Exposure time (days) | Effects observed |
|-----------------|----------|---------------------------|---------|--------|----------------------|------------------|
| nitric acid     |          | No data available         |         |        | -                    |                  |
| phosphoric acid |          | No data available         |         |        | -                    |                  |

**Terrestrial toxicity**

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

| Ingredient(s)   | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|-----------------|----------|-----------------------|---------|--------|----------------------|------------------|
| nitric acid     |          | No data available     |         |        | -                    |                  |
| phosphoric acid |          | No data available     |         |        | -                    |                  |

Terrestrial toxicity - plants, if available:

| Ingredient(s)   | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|-----------------|----------|-----------------------|---------|--------|----------------------|------------------|
| nitric acid     |          | No data available     |         |        | -                    |                  |
| phosphoric acid |          | No data available     |         |        | -                    |                  |

Terrestrial toxicity - birds, if available:

| Ingredient(s)   | Endpoint | Value             | Species | Method | Exposure time (days) | Effects observed |
|-----------------|----------|-------------------|---------|--------|----------------------|------------------|
| nitric acid     |          | No data available |         |        | -                    |                  |
| phosphoric acid |          | No data available |         |        | -                    |                  |

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s)   | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|-----------------|----------|-----------------------|---------|--------|----------------------|------------------|
| nitric acid     |          | No data available     |         |        | -                    |                  |
| phosphoric acid |          | No data available     |         |        | -                    |                  |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s)   | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|-----------------|----------|-----------------------|---------|--------|----------------------|------------------|
| nitric acid     |          | No data available     |         |        | -                    |                  |
| phosphoric acid |          | No data available     |         |        | -                    |                  |

**12.2 Persistence and degradability****Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:



Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

### Biodegradation

Ready biodegradability - aerobic conditions

| Ingredient(s)   | Inoculum | Analytical method | DT <sub>50</sub> | Method | Evaluation                           |
|-----------------|----------|-------------------|------------------|--------|--------------------------------------|
| nitric acid     |          |                   |                  |        | Not applicable (inorganic substance) |
| phosphoric acid |          |                   |                  |        | Not applicable (inorganic substance) |

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log K<sub>ow</sub>)

| Ingredient(s)   | Value             | Method           | Evaluation                           | Remark |
|-----------------|-------------------|------------------|--------------------------------------|--------|
| nitric acid     | -2.3              | Method not given | Not relevant, does not bioaccumulate |        |
| phosphoric acid | No data available |                  | No bioaccumulation expected          |        |

Bioconcentration factor (BCF)

| Ingredient(s)   | Value             | Species | Method | Evaluation                  | Remark |
|-----------------|-------------------|---------|--------|-----------------------------|--------|
| nitric acid     | No data available |         |        |                             |        |
| phosphoric acid | No data available |         |        | No bioaccumulation expected |        |

### 12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

| Ingredient(s)   | Adsorption coefficient Log K <sub>oc</sub> | Desorption coefficient Log K <sub>oc</sub> (des) | Method | Soil/sediment type | Evaluation                                       |
|-----------------|--|--|--------|--------------------|--|
| nitric acid     | No data available                          |  |        |                    | Mobile in aqueous environment                    |
| phosphoric acid | No data available                          |  |        |                    | Potential for mobility in soil, soluble in water |

### 12.5 Other adverse effects

No other adverse effects known.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste from residues / unused products:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

Empty packaging

Recommendation:

Dispose of observing national or local regulations.

Suitable cleaning agents:

Water, if necessary with cleaning agent.

## SECTION 14: Transport information



ADG, IMO/IMDG, ICAO/IATA

14.1 UN number: 2031

14.2 UN proper shipping name:

Nitric acid, solution

14.3 Transport hazard class(es):

Class: 8

Label(s): 8

14.4 Packing group: II

14.5 Environmental hazards:

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**14.6 Special precautions for user:** None known.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** The product is not transported in bulk tankers.

**Other relevant information:**

**Hazchem code:** 2R

**IMO/IMDG**

**EmS:** F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of ADG and the provisions of the IMDG Code. Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

## SECTION 15: Regulatory information

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

|                              |  |
|------------------------------|--|
| <b>National regulations:</b> | Globally Harmonised System of Classification and Labelling of Chemicals (GHS) as published by Safework Australia.                      |
| <b>Poison schedule</b>       | Classified as a Schedule 6 (S6) Poison using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP). |
| <b>Classification</b>        | Globally Harmonised System of Classification and Labelling of Chemicals (GHS) as published by Safework Australia.                      |
| <b>Inventory listing(s)</b>  | All components are listed on AICS, or are exempt   |

## SECTION 16: Other information

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

**SDS code:** MS31000166

**Version:** 01.0

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- H272 - May intensify fire; oxidiser.
- H290 - May be corrosive to metals.
- H314 - Causes severe skin burns and eye damage.
- AUH071 - Corrosive to the respiratory tract.

**Exposure standards - Time Weighted Average (TWA) or Workplace Exposure Standard (WES) (NZ):** Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

**Abbreviations and acronyms:**

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate

**End of Safety Data Sheet**