

VALAGRO SDS according to to HSNO Regulations – NZ EPA
Revision date: February 19, 2018 version number: 1.0
Product: CONTROL DMP
Code: 11411
Print Date: February 19, 2018

SAFETY DATA SHEET

CONTROL DMP

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

1.1. Product identifier

Product form : Mixture
Trade name : CONTROL DMP
Product code : 11411

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

1.2.1. Relevant identified uses
Use of the substance/mixture : Fertilizer
1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet

VALAGRO Spa
Valagro Pacific Limited
727 Heretaunga Street West, St. Leonards
Hastings, 4120, New Zealand
T (+64) 6 281 2137 - F (+64) 6 281 2141
regulatory@valagro.com - www.valagro.com

1.4. Emergency telephone number

Emergency number : Valagro Pacific Limited – Telephone (06) 6 281 2137(Monday to Friday 8:30-17:00)
: 111 Police, Ambulance and Fire Brigade (available in New Zealand only)
NZ POISON CENTRE CONTACT : 0800 764 766 (National Poisons Information Centre)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.
Not Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

HSNO Classification:

8.2.C - Substances that are corrosive to dermal tissue
8.3.A - Substances that are corrosive to ocular tissue

Hazard statement codes

H314 - Causes severe skin burns and eye damage.

Precautionary statement codes – Prevention:

P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children.
P103 - Read label before use
P280 - Wear protective gloves, eye protection, face shield
P260 - Do not breathe mist/vapours/spray
P264 - Wash hands, forearms and face thoroughly after handling

Precautionary statement codes – Response:

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 doctor, a POISON CENTER
P301 + P330+ P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361+ P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 - Wash contaminated clothing before reuse.

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P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P321 - Specific treatment (see on the label the emergency telephone number of NZ POISON CENTRE CONTACT - Tel 0800 764 766 for medical advice)

P340 - Remove to fresh air and keep at rest in a position comfortable for breathing.

Precautionary statement codes – Storage:

P405 - Store locked up.

Precautionary statement codes – Disposal:

P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

2.2. Label elements

Hazard pictograms (CLP) :



Signal word (CLP) : Danger

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable.

3.2. Mixture

Name	Cas No.	%	Approval Status (NZIoC)
Phosphoric acid	7664-38-2	24 - < 25	HSNO Approval Code HSR001545
Oxirane, 2-methyl-, polymer with oxirane, mono (2-propylheptyl) ether	166736-08-9	5 - < 10	Approved for use as a component in a product covered by the group standard disclosed in section 15.
Other ingredients not subject to the provisions of the Hazardous Substances (identification) Regulations 2001, make up the product concentration to 100%			

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. Seek medical attention if ill effect or irritation develops.
First-aid measures after skin contact	: Remove contaminated clothing immediately and dispose of safely. Wash skin thoroughly with mild soap and water. Wash thoroughly the body (shower or bath). If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye. Contact ophthalmologist immediately.
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to an unconscious person. Do not induce vomiting. Immediately call a POISON CENTER (Ph: Australia 131 126; New Zealand 0800 764 766) or doctor/physician.

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

Symptoms/injuries after inhalation	: Inhalation may cause irritation, cough, shortness of breath.
Symptoms/injuries after skin contact	: Causes severe skin burns. Pain. Redness.
Symptoms/injuries after eye contact	: Causes severe eye damage; symptoms may include stinging, tearing, redness, swelling and blurred vision.

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- Symptoms/injuries after ingestion : If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects). Vomiting. Abdominal pain. Gastrointestinal pain.
- Chronic symptoms : May cause damage to organs through prolonged or repeated exposure.

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

Keep under medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂). For large fire: Water spray. Alcohol resistant foam.
- Unsuitable extinguishing media : Do not use water jet.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Do not inhale explosion and combustion gases.
- Hazardous decomposition products in case of fire : Nitrogen oxides. Phosphorus oxides.

5.3. Advice for firefighters

- Precautionary measures fire : Evacuate the personnel away from the fumes.
- Firefighting instructions : Cool down the containers exposed to heat with a water spray. Move undamaged containers from immediate hazard area if it can be done safely.
- Protective equipment for firefighters : Extra personal protection: complete protective clothing including self-contained breathing apparatus. EN 469.
- Other information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment : Do not attempt to take action without suitable protective equipment. Wear suitable protective clothing, gloves and eye/face protection.
- Emergency procedures : Immediately contact emergency personnel. Eliminate all ignition sources if safe to do so.

6.1.2. For emergency responders

- Protective equipment : Wear suitable protective clothing, gloves and eye/face protection. Avoid breathing dust/fume/gas/mist/vapours/spray.
- Emergency procedures : Evacuate unnecessary personnel. Eliminate all ignition sources if safe to do so. Provide adequate ventilation.

6.2. Environmental precautions

Avoid release to the environment. Avoid sub-soil penetration. Dilute with plenty of water. Relevant water authorities should be notified of any large spillage to water course or drain.

6.3. Methods and material for containment and cleaning up

- For containment : Stop leak if safe to do so.
- Methods for cleaning up : Ventilate affected area. Wear personal protection equipment. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed containers for disposal. Wash with plenty of soap and water. Consult the appropriate authorities about waste disposal.
- Other information : Do not allow uncontrolled discharge of product into the environment.

6.4. Reference to other sections

For disposal of residues refer to section 13 : Disposal considerations. For further information refer to section 8: "Exposure controls/personal protection".

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing mist or vapor . Keep away from sources of ignition - No smoking. Take any precaution to avoid mixing with Incompatible materials. Do not re-use empty containers without proper cleaning or reconditioning.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing prior to re-use.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep in original containers. Store tightly closed in a dry, cool and well-ventilated place.
- Incompatible materials : Bases. Metals. Reducing agents.
- Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition.
- Prohibitions on mixed storage : Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Phosphoric acid (7664-38-2)		
New Zealand	WES TWA (mg/m ³)	1 mg/m ³
EU	IOELV TWA (mg/m ³)	1 mg/m ³
EU	IOELV STEL (mg/m ³)	2 mg/m ³

Phosphoric acid (7664-38-2) (EU parameters)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	2 mg/m ³
Long-term - local effects, inhalation	1 mg/m ³
DNEL/DMEL (General population)	
Long-term - local effects, inhalation	0.73 mg/m ³

Oxirane, 2-methyl-, polymer with oxirane, mono (2-propylheptyl) ether (166736-08-9)
No exposure limits available

8.2. Exposure controls

Appropriate engineering controls:

Provide adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment:

Safety glasses. Gloves. Protective clothing.

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Materials for protective clothing:

Rubbers. Natural fibres (e.g. cotton). Viton. Wear acid-resistant protective clothing

Hand protection:

Wear suitable gloves tested to EN374 or equivalent. Breakthrough time : > 480 min. Thickness of glove material: > 0,13 mm. NBR (Nitrile rubber). Butyl rubber. NR (Natural rubber (caoutchouc), Natural latex). Neoprene.

Eye protection:

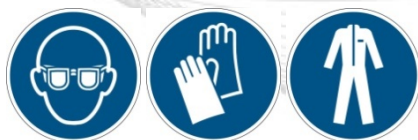
Tightly fitting safety goggles according to EN 166 or equivalent. Do not wear contact lenses

Skin and body protection:

Chemical resistant protective apron/clothing (tested to EN 14605 or equivalent)

Respiratory protection:

With correct and proper use, and under normal conditions, breathing protection is not required. Mist formation: aerosol mask. Half-mask with filter according to EN 149 or equivalent. Combined gas/dust mask with filter type A/P2. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment

**Environmental exposure controls:**

Do not allow the product to be released into the environment. Dilute with plenty of water.

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

Physical state	: Liquid
Colour	: red.
Odour	: Phosphoric acid.
Odour threshold	: No data available
pH	: 0,2
pH solution	: 2,1 1%
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 100 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available

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Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1,1 – 1.2 kg/l @20 °C
Solubility	: soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not expected to be explosive as none of the components is classified as explosive.
Oxidising properties	: None of the components are classified for oxidizing properties.
Explosive limits	: No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable in use and storage conditions as recommended in item 7.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Gives off hydrogen by reaction with metals. Exothermic reaction on contact with : alkaline substances. May be corrosive to metals. No polymerization.

10.4. Conditions to avoid

Overheating.

10.5. Incompatible materials

reducing agents. Oxidising agents. Bases. metals.

10.6. Hazardous decomposition products

Nitrogen oxides (NOx). Phosphorus oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Phosphoric acid (7664-38-2)	
LD50 oral rat	2600 mg/kg (OECD 423)
Oxirane, 2-methyl-, polymer with oxirane, mono (2-propylheptyl) ether (166736-08-9)	
LD50 oral rat	300 - 2000 mg/kg

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Skin corrosion/irritation	: Causes skin irritation. pH: 0,2
Serious eye damage/irritation	: Causes serious eye damage. pH: 0,2
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

Phosphoric acid (7664-38-2)	
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight/day (OECD 422)

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Phosphoric acid (7664-38-2)	
EC50 Daphnia 1	> 100 mg/L (Daphnia magna) (OECD 202, fresh water).
EC50 72h algae (1)	> 100 mg/l (OECD 201, fresh water).

Oxirane, 2-methyl-, polymer with oxirane, mono (2-propylheptyl) ether (166736-08-9)	
LC50 fish 1	10 - 100 mg/l Brachydanio rerio (OECD 203)
EC50 Daphnia 1	10 - 100 mg/l Daphnia magna
EC50 72h algae (1)	10 - 100 mg/l Scenedesmus subspicatus

12.2. Persistence and degradability

Phosphoric acid (7664-38-2)	
Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.

Oxirane, 2-methyl-, polymer with oxirane, mono (2-propylheptyl) ether (166736-08-9)	
Persistence and degradability	Readily biodegradable.
Biodegradation	> 60 % (OECD 301B)

12.3. Bioaccumulative potential

Phosphoric acid (7664-38-2)	
Bioaccumulative potential	not bioaccumulable.

Oxirane, 2-methyl-, polymer with oxirane, mono (2-propylheptyl) ether (166736-08-9)	
Bioaccumulative potential	Low bioaccumulation potential.

12.4. Mobility in soil

No data available

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12.5. Results of PBT and vPvB assessment

Control DMP	
Results of PBT assessment	The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects : Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
 Rinse off of bigger amounts into drains or watercourses may cause a decreasing of the pH value.
 A low pH-value harms aquatic organisms. Diluting the concentration used, the pH value increases considerably, so that after dilution of the product, the waste water into drains, are not very dangerous to the aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Reuse or recycle following decontamination. External recovery and recycling of waste should comply with applicable local and/or national regulations.

SECTION 14: Transport information

In accordance with IATA / IMDG / NZS 5433:2012 Transport of Dangerous Goods on Land

14.1. UN number

UN-No. (NZS5433) : 1805
 UN-No. (IMDG) : 1805
 UN-No. (IATA) : 1805

14.2. UN proper shipping name

Proper Shipping Name (NZS5433) : ONU PHOSPHORIC ACID, SOLUTION (Acido fosforico >= 20% - < 25%)
 Proper Shipping Name (IMDG) : ONU PHOSPHORIC ACID, SOLUTION (Acido fosforico >= 20% - < 25%)
 Proper Shipping Name (IATA) : ONU PHOSPHORIC ACID, SOLUTION (Acido fosforico >= 20% - < 25%)

14.3. Transport hazard class(es)

NZ

Transport hazard class(es) (NZS5433) : 8

IMDG

Transport hazard class(es) (IMDG) : 8

IATA

Transport hazard class(es) (IATA) : 8

14.4. Packing group

Packing group (NZS5433) : III
 Packing group (IMDG) : III
 Packing group (IATA) : III

14.5. Environmental hazards

Dangerous for the environment : No
 Marine pollutant : No
 Other information : No supplementary information available

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
 Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

New Zealand

Classification : Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

National Chemical Inventories (NZIoC) : All components are listed on the New Zealand Inventory of Chemicals

HSNO Approval Number (Group Standard) : HSR002571. Fertiliser (Subsidiary Hazard) Group Standard 2006

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out: phosphoric acid.

SECTION 16: Other information

Abbreviations and acronyms:

SDS	Safety Data Sheet
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
RID	Regulations concerning the International Carriage of Dangerous Goods by Rai
PNEC	Predicted No-Effect Concentration
PBT	Persistent Bioaccumulative Toxic
vPvB	Very Persistent and Very Bioaccumulative
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

Other information : This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. It is the user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient for the use of this product.