

VALAGRO SDS according to to HSNO Regulations – NZ EPA

Revision date: March, 17 2021 version number: 2.2

Product: Activ Erger

Code: 11615

Print Date: March 17, 2021

SAFETY DATA SHEET

Activ Erger

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

1.1. Product identifier

Product form : Mixture
Trade name : Activ Erger
Product code : 11615

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

AGRITRADE
1 Robin Mann Place
Christchurch Airport
Christchurch 8053
New Zealand
Ph 03 341 4587
Fax 03 341 4584
Free Phone 0800 333 855
agritrade@nzagritrade.co.nz

1.4. Emergency telephone number

Emergency number : AGRITRADE- Tel. 0800 333 855
: 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.
Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

HSNO Classification:

5.1.1C - Oxidising substances that are liquids or solids: low hazard
6.1D - Substances that are acutely toxic - Harmful
8.3A - Substances that are corrosive to ocular tissue

Hazard statement codes:

H272 - May intensify fire; oxidiser
H302 - Harmful if swallowed
H318 - Causes serious eye damage

Precautionary statement codes – Prevention:

If medical advice is needed, have product container or label at hand.
Keep out of reach of children
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Take any precaution to avoid mixing with combustibles.
Wear protective gloves/ safety goggles and face shield.

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Precautionary statement codes – Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER, or doctor/physician.

Precautionary statement codes – Disposal:

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) : Danger

2.3. Other hazards

other hazards which do not result in classification : Spilled material may present a slipping hazard.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Cas No.	%	Approval Status (NZIoC)
-Ammonium nitrate	6484-52-2	30 - 40	HSNO Approval Code HSR001310
Nitric acid, ammonium calcium salt	15245-12-2	25 - 30	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. 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.

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- 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 or doctor/ physician.
- Other information : For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

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

- Symptoms/injuries after inhalation : Decomposition products may be a hazard to health.
- Symptoms/injuries after skin contact : None known.
- Symptoms/injuries after eye contact : Risk of serious damage to eyes. symptoms may include stinging, tearing, redness, swelling and blurred vision.
- Symptoms/injuries after ingestion : Harmful if swallowed. May cause irritation in mouth, gullet and stomach. Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting. Abdominal pain.

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

In case of inhalation of fumes : Keep under medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water.
- Unsuitable extinguishing media : carbon dioxide (CO₂), dry chemical powder, foam.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Do not breathe fumes. May intensify fire; oxidiser.
- Explosion hazard : In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.
- Hazardous decomposition products in case of fire : Nitrogen oxides. Ammonia. Amines. Metal oxides.

5.3. Advice for firefighters

- Precautionary measures fire : Evacuate the personnel away from the fumes.
- Firefighting instructions : 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 : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazchem Code : 2Y

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 personal protection equipment.
- Emergency procedures : Immediately contact emergency personnel. Eliminate all ignition sources if safe to do so. Spilled material may present a slipping hazard.

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. Spilled material may present a slipping hazard.

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.

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- 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".

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. Open and handle container with care.
- 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.

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. Keep out of direct sunlight.
- Incompatible materials : Reducing agents. combustible materials.
- 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

New Zealand Workplace Exposure Standard:

No value assigned for any of the ingredients by the New Zealand Department of Labour (Health & Safety).

Ammonium nitrate (6484-52-2) (EU parameters)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	21.3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	37.6 mg/m ³

DNEL/DMEL (General population)

Long-term - systemic effects,oral	12.8 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	11.1 mg/m ³
Long-term - systemic effects, dermal	12.8 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater)	0.45 mg/l
PNEC aqua (marine water)	0.045 mg/l
PNEC aqua (intermittent, freshwater)	4.5 mg/l

PNEC (STP)

PNEC sewage treatment plant	18 mg/l
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Nitric acid, ammonium calcium salt (15245-12-2) (EU parameters)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	13.9 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	98 mg/m ³

DNEL/DMEL (General population)

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Nitric acid, ammonium calcium salt (15245-12-2) (EU parameters)	
Long-term - systemic effects, oral	8.33 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	25.2 mg/m ³
Long-term - systemic effects, dermal	8.3 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.45 mg/l
PNEC aqua (marine water)	0.045 mg/l
PNEC aqua (intermittent, freshwater)	4.5 mg/l
PNEC (STP)	
PNEC sewage treatment plant	18 mg/l

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.

Materials for protective clothing:

Nitrile

Hand protection:

Wear suitable gloves tested to EN374 or equivalent. Chemical resistant gloves (nitrile-rubber, PVC, neoprene). Breakthrough time : > 480 min. Thickness of glove material: > 0,13 mm

Eye protection:

Wear eye glasses with side protection according to EN 166 or equivalent.

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



Environmental exposure controls:

Dilute with plenty of water. Recover the cleaning water for later disposal.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: colorless.
Odour	: characteristic.
Odour threshold	: No data available
pH	: 6.1 @ 20 °C
Relative evaporation rate (butyl acetate=1)	: No data available

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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
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	: 1.2 - 1.3 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	: No data available
Oxidising properties	: May intensify fire; oxidiser.
Explosive limits	: No data available

9.2. Other information

No additional information 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

No polymerization. May cause or intensify fire; oxidiser.

10.4. Conditions to avoid

Overheating.

10.5. Incompatible materials

reducing agents. Acids. combustible materials. alkalis. Organic materials.

10.6. Hazardous decomposition products

When exposed to heat, may decompose liberating hazardous gases. Nitrogen oxides (NO_x). Ammonia. Amines. Metal oxides.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

-Ammonium nitrate (6484-52-2)	
LD50 oral rat	2950 mg/kg (OECD 401)
LD50 dermal rat	> 5000 mg/kg bodyweight (OECD 402)
LC50 inhalation rat (mg/l)	> 88.8 mg/l

Nitric acid, ammonium calcium salt (15245-12-2)	
LD50 oral rat	500 mg/kg (OECD 423)
LD50 dermal rat	2000 mg/kg (OECD 402)

Skin corrosion/irritation : Not classified
pH: 6.1 @ 20 °C

Serious eye damage/irritation : Causes serious eye damage.
pH: 6.1 @ 20 °C

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) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

-Ammonium nitrate (6484-52-2)	
LC50 fish 1	447 mg/l 48h
EC50 Daphnia 1	490 mg/l 48h
EC50 72h algae (1)	1700 mg/l 240h

Nitric acid, ammonium calcium salt (15245-12-2)	
LC50 fish 1	447 mg/l 48h
EC50 Daphnia 1	> 100 mg/l 48h
EC50 72h algae (1)	> 100 mg/l 72h

12.2. Persistence and degradability

11615	
Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

11615	
Bioaccumulative potential	Low bioaccumulation potential.

12.4. Mobility in soil

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Ecology - soil	Expected to be highly mobile in soil.

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12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

No additional information available

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) : 3218
 UN-No. (IMDG) : 3218
 UN-No. (IATA) : 3218

14.2. UN proper shipping name

Proper Shipping Name (NZS5433) : NITRATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.
 Proper Shipping Name (IMDG) : NITRATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.
 Proper Shipping Name (IATA) : Nitrates, inorganic, aqueous solution, n.o.s.
 Transport document description : UN 3218 NITRATES, INORGANIC, AQUEOUS SOLUTION, N.O.S., 5.1, III, (E)
 Transport document description (IMDG) : UN 3218 NITRATES, INORGANIC, AQUEOUS SOLUTION, N.O.S., 5.1, III
 Transport document description (IATA) : UN 3218 Nitrates, inorganic, aqueous solution, n.o.s., 5.1, III

14.3. Transport hazard class(es)

Transport of Dangerous Goods on Land

Transport hazard class(es) (NZS5433) : 5.1
 Danger labels (NZS5433) : 5.1



IMDG

Transport hazard class(es) (IMDG) : 5.1
 Danger labels (IMDG) : 5.1



IATA

Transport hazard class(es) (IATA) : 5.1
 Hazard labels (IATA) : 5.1

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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
 Hazchem Code : 2Y
 Other information : No supplementary information available

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) : HSR002570. Fertiliser (Oxidising [5.1.1]) Group Standard 2006
 Approved Handler : This product must be under the control of an approved handler when present at >1000 L.

15.2. Chemical safety assessment

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

Ammonium nitrate (6484-52-2)

Nitric acid, ammonium calcium salt (15245-12-2)

SECTION 16: Other information

Section modified from previous version: 1.3

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

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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
ATE	Acute Toxicity Estimate
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.

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Ox. Sol. 3	Oxidising Solids, Category 3
Ox. Liq. 3	Oxidising Liquids, Category 3
H272	May intensify fire; oxidiser
H302	Harmful if swallowed
H318	Causes serious eye damage
H319	Causes serious eye irritation

Classification and procedure used to derive the classification for mixtures:

Ox. Liq. 3	H272	On basis of test data
Acute Tox. 4 (Oral)	H411	Calculation method
Eye Dam. 1	H318	Calculation method