

Australian statement of hazardous nature: Classified as hazardous according to criteria of Safe Work Australia

Section 1 - Identification

Product Name NitraVer 6 nitrate reagent powder pillows

Product Code HAC14120-99, HAC20761-99, HAC21072-49, HAC14119-99

Address ThermoFisher Scientific Australia Pty Ltd

5 Caribbean Drive, Scoresby VICTORIA 3179, Australia

Emergency Tel. CHEMTREC®

03 9757 4559 or +613 9757 4559

Telephone / Fax Numbers Tel: 1300 735 292

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E-mail address ANZinfo@thermofisher.com

Recommended Use Laboratory chemicals.

Uses advised against

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

This product does not contain any substance(s) subject to Prohibition, Authorization or Restriction. This product does not contain any substance(s) listed on the voluntary National

Code of Practice for Chemicals of Security Concern.

Section 2 - Hazard(s) Identification

Classification under Safe Work Australia

Classified as hazardous according to criteria of Safe Work Australia

Physical hazards

Substances/mixtures corrosive to metal Category 1

Health hazards

Acute Inhalation Toxicity - Vapors

Category 2

Acute Inhalation Toxicity - Dusts and Mists

Category 2

Skin Corrosion/Irritation Category 1 B
Serious Eye Damage/Eye Irritation Category 1
Category 1

Skin Sensitization
Category 1
Germ Cell Mutagenicity
Carcinogenicity
Category 2
Carcinogenicity
Category 1
Reproductive Toxicity
Category 2
Specific target organ toxicity - (single exposure)
Specific target organ toxicity - (repeated exposure)
Category 1
Category 2
Category 3
Category 1

Environmental hazards

Chronic aquatic toxicity Category 2

Label Elements

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Skull and Crossbones

Health Hazard

Signal Word

Danger

Hazard Statements

- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H330 Fatal if inhaled
- H335 May cause respiratory irritation
- H341 Suspected of causing genetic defects if inhaled
- H350 May cause cancer
- H361 Suspected of damaging fertility or the unborn child
- H372 Causes damage to organs through prolonged or repeated exposure
- H411 Toxic to aquatic life with long lasting effects
- H290 May be corrosive to metals
- H314 Causes severe skin burns and eye damage

Precautionary Statements

- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P234 Keep only in original packaging
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P264 Wash face, hands and any exposed skin thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area
- P284 Wear respiratory protection
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- 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
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P310 Immediately call a POISON CENTER or doctor
- P363 Wash contaminated clothing before reuse
- P390 Absorb spillage to prevent material damage
- P402 Store in a dry place
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed
- P406 Store in corrosion resistant polypropylene container with a resistant inliner
- P501 Dispose of contents/ container to an approved waste disposal plant

Other information

Toxic to terrestrial vertebrates

This product does not contain any known or suspected endocrine disruptors

Section 3 - Composition and Information on Ingredients

| Component | CAS No | Weight % |
|--|------------|----------|
| Sodium sulfate | 7757-82-6 | 40-50 |
| Dihydrogen potassium phosphate | 7778-77-0 | 30-40 |
| Glycine, N,N'-1,2-cyclohexanediylbis[N-(carboxymethyl)-, | 36679-96-6 | 20-30 |

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| trisodium salt | | |
|--|------------|-------|
| Cadmium | 7440-43-9 | 10-20 |
| Potassium pyrosulfate | 7790-62-7 | 0-10 |
| Polyacrylamides | 9003-05-8 | 0-10 |
| Cuprate(2-), | 19332-78-6 | 0-10 |
| [[N,N'-1,2-cyclohexanediylbis[N-(carboxymethyl)glycinato]] | | |
| (4-)-N,N',O,O',ON,ON']-, [OC-6-21-(trans)]- | | |

Section 4 - First Aid Measures

Inhalation Remove to fresh air.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

Eye ContactRinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms and

effects

May cause allergic skin reaction. Causes burns by all exposure routes. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe

damage to the delicate tissue and danger of perforation

Notes to Physician Treat symptomatically.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

No information available.

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Special protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6 - Accidental Release Measures

Emergency procedures

Ensure adequate ventilation.

Environmental Precautions

Do not flush into surface water or sanitary sewer system.

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Methods for Containment and Clean Up

Clean-up methods - small spillage

Clean-up methods - large spillage

Typically only supplied is small quantiites as packaged goods.

If extremely toxic or used in larger quantities ensure a spillage action plan is in place. Evacuate area. Control the source and/or contain the spill if safe and able to do so. Use temporary diking, sand bags, dry sand, earth or proprietary booms/absorbent pads if available. Obtain advice on containment, neutralisation and clean-up from local emergency responders.

Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

Section 7 - Handling and Storage

Precautions for Safe Handling

Ensure adequate ventilation.

Conditions for Safe Storage, Including any Incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area.

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals

Section 8 - Exposure Controls and Personal Protection

Exposure limits

AUS - Exposure Standards for Atmospheric Contaminants in the Occupational Environment - Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:3008(1995)] Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)] updated in August, 2005. Safe Work Australia

ACGIH - Threshold Limit Values - Ceiling (TLV-C) guidelines by the American Conference of Governmental Industrial Hygienists (ACGIH) for controlling worker exposure to airborne chemical concentrations in the workplace.

UK - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020.

DE - MAK and BAT values of Hazardous Chemical Compounds in the Work Area. Published by German Research Foundation on July 1, 2011

NZ - Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor

| Component | Australia | New Zealand WEL | ACGIH TLV | The United Kingdom | Germany |
|-------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------------|---------------------------------|
| Cadmium | TWA: 0.01 mg/m ³ | TWA: 0.004 mg/m ³ | TWA: 0.01 mg/m ³ | STEL: 0.075 mg/m ³ 15 | TWA: 0.002 mg/m ³ (8 |
| | _ | _ | TWA: 0.002 mg/m ³ | min | Stunden). AGW - |
| | | | _ | TWA: 0.025 mg/m ³ 8 hr | exposure factor 8 TWA: |
| | | | | Carc. metal | 0.002 mg/m ³ (8 |
| | | | | | Stunden). AGW - |
| | | | | | Haut |
| Cuprate(2-), | | | TWA: 1 mg/m ³ | STEL: 2 mg/m ³ 15 min | |
| [[N,N'-1,2-cyclohexan | | | _ | TWA: 1 mg/m ³ 8 hr | |
| ediylbis[N-(carboxym | | | | _ | |
| ethyl)glycinato]](4-)-N | | | | | |
| ,N',O,O',ON,ON']-, | | | | | |
| [OC-6-21-(trans)]- | | | | | |

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

| L | Component | Australia | New Zealand | European Union | United Kingdom | Germany |
|---|-----------|-----------|---------------------------|----------------|----------------|---------|
| Γ | Cadmium | | 2 μg/g creatinine (urine) | | | |
| L | | | not critical (Cadmium) | | | |

Exposure Controls Engineering Measures

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Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection Goggles (Australian/New Zealand Standard AS/NZS 1337 - Eye protectors for Industrial

applications)

Hand Protection Protective gloves

| Glove material | Breakthrough time | Glove thickness | AUS/NZ Standard | Glove comments |
|-------------------|-------------------|-----------------|-----------------|-----------------------|
| Disposable gloves | See manufacturers | - | AS/NZS 2161 | (minimum requirement) |
| | recommendations | | | |

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection Long sleeved clothing

Repiratory Protection Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or

other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use

and maintenance of repiratory protective devices (or AUS/NZ equivalent)

When RPE is used a face piece Fit Test should be conducted

Hygiene MeasuresHandle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Prevent product from entering drains. Do not allow material to contaminate ground water

system. Local authorities should be advised if significant spillages cannot be contained.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Grey

Physical State Powder Solid

Odor No information available

Odor Threshold No data available

pH 4.2

Melting Point/Range No data available 180 °C / 356 °F

Softening Point No data available
Boiling Point/Range Not applicable

Flash Point Not applicable Method - No information available

Evaporation Rate Not applicable Solid

Flammability (solid,gas)

No information available

Explosion Limits No data available

Vapor Pressure
No data available
Not applicable

Vapor DensityNot applicableSolid

Specific Gravity / DensityNo data availableBulk DensityNo data availableWater SolubilitySoluble in water

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Component log Pow

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SAFETY DATA SHEET

Sodium sulfate -3

Not applicable **Autoignition Temperature** No data available **Decomposition Temperature**

Viscosity Not applicable Solid

No information available **Explosive Properties Oxidizing Properties** No information available

Other information

Section 10 - Stability and Reactivity

None known, based on information available Reactivity

Stability Stable under normal conditions.

Conditions to Avoid Heat, flames and sparks.

Incompatible Materials None known.

Hazardous Decomposition Products None under normal use conditions.

Hazardous Polymerization No information available.

Section 11 - Toxicological Information

Information on Toxicological Effects

Product Information

(a) acute toxicity;

Based on available data, the classification criteria are not met Oral **Dermal** Based on available data, the classification criteria are not met

Inhalation Category 2

Toxicology data for the components

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--------------------------------|---------------------------|------------------------------|--|
| Sodium sulfate | LD50 > 10000 mg/kg (Rat) | | LC50 > 2.4 mg/L (Rat) 4 h |
| Dihydrogen potassium phosphate | LD50 = 3200 mg/kg (Rat) | LD50 > 4640 mg/kg (Rabbit) | LC50 > 0.83 mg/L (Rat) 4 h |
| Cadmium | LD50 = 2330 mg/kg (Rat) | | $LC50 = 25 \text{ mg/m}^3 \text{ (Rat) } 30 \text{ min}$ |
| Polyacrylamides | LD50 > 2.5 g/kg (Rat) | LD50 > 20000 mg/kg (Rat) | LD50 > 20 mg/l (Rat) |

(b) skin corrosion/irritation; Category 1 B

(c) serious eye damage/irritation; Category 1

(d) respiratory or skin sensitization;

Respiratory No data available Skin Category 1

Sensitization No information available

(e) germ cell mutagenicity; Category 2

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Category 1B (f) carcinogenicity;

The table below indicates whether each agency has listed any ingredient as a carcinogen

| Component | Australia | New Zealand | New South Wales | Western Australia | IARC | EU | UK | Germany |
|-----------|-----------|-------------|--------------------|----------------------|---------|--------------|----|---------|
| Cadmium | | Confirmed | | | Group 1 | Carc Cat. 1B | | Cat. 1 |
| | | carcinogen | | | | | | ĺ |

(g) reproductive toxicity; Category 2

(h) STOT-single exposure; Category 3

Results / Target organs Respiratory system

(i) STOT-repeated exposure; Category 1

No information available. **Target Organs**

Not applicable (j) aspiration hazard;

Solid

delayed

Symptoms / effects, both acute and Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

Section 12 - Ecological Information

Ecotoxicity effects

The product contains following substances which are hazardous for the environment.

Contains a substance which is:. Very toxic to aquatic organisms.

| Freshwater Fish | Water Flea | Freshwater Algae | Microtox |
|-----------------------|--|----------------------|----------------------|
| | | - | - |
| | | | |
| g/L/96h | EC50: 4547 mg/L/96h | | |
| LC50: 0.0004 - 0.003 | EC50: = 0.0244 mg/L, | | |
| ` ` ` | 48h Static (Daphnia | | |
| . , | magna) | | |
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| | | | |
| (Oncornynchus mykiss) | | | |
| Bluegill Sunfish: | Danhnia magna: | Selenastrum | |
| | | | |
| | (1011) | | |
| LC50 > 100 mg/L (96h) | | | |
| | Pimephales promelas: LC50: 13.5 - 14.5 g/L/96h LC50: 0.0004 - 0.003 mg/L, 96h (Pimephales promelas) LC50: = 0.016 mg/L, 96h (Oryzias latipes) LC50: = 21.1 mg/L, 96h flow-through (Lepomis macrochirus) LC50: = 0.24 mg/L, 96h static (Cyprinus carpio) LC50: = 4.26 mg/L, 96h semi-static (Cyprinus carpio) LC50: = 0.002 mg/L, 96h (Cyprinus carpio) LC50: = 0.006 mg/L, 96h static (Oncorhynchus mykiss) LC50: = 0.003 mg/L, 96h flow-through (Oncorhynchus mykiss) Bluegill Sunfish: LC50 > 100 mg/L (96h) Rainbow trout: | Pimephales promelas: | Pimephales promelas: |

Persistence and Degradability

Persistence

Soluble in water, Persistence is unlikely, based on information available.

AUS-002141 Version 2 14-Jul-2023 Page 7/12 Degradation in sewage

SAFETY DATA SHEET

| treatment plant Bioaccumulative Potential | | water treatment plants. Bioaccumulation is unlikely | , and the second |
|--|-----------|---|--|
| | Component | log Pow | Bioconcentration factor (BCF) |
| | 0 - 1 | 9 | Nie de Centralitation |

| Component | log Pow | Bioconcentration factor (BCF) |
|----------------|--|--|
| Sodium sulfate | -3 | No data available |
| Mobility | The product is water soluble, and may spread | in water systems. Will likely be mobile in the |

Endocrine Disruptor Information

Persistent Organic Pollutant Ozone Depletion Potential

The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility Highly mobile in soils

Contains substances known to be hazardous to the environment or not degradable in waste

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

Section 13 - Disposal Considerations

Waste from Residues/Unused

Products

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

Contaminated Packaging

Dispose of this container to hazardous or special waste collection point.

Other Information

Chemical wastes should be disposed through a licensed commercial waste collection service. Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Large amounts will affect pH and harm aquatic organisms. Do not let this chemical enter the environment.

Section 14 - Transport Information

IMDG/IMO

UN-No UN3077

Proper Shipping Name

Technical Shipping Name Hazard Class Packing Group

Environmentally hazardous substances, solid, n.o.s. Nitra Ver 6 Nitrate Reagent (contains Cadmium)

Ш

ADG

UN3077 **UN-No**

Proper Shipping Name Technical Shipping Name

Nitra Ver 6 Nitrate Reagent (contains Cadmium) Ш

Hazard Class Packing Group

IATA

UN3077 **UN-No**

Proper Shipping Name Technical Shipping Name Environmentally hazardous substances, solid, n.o.s. Nitra Ver 6 Nitrate Reagent (contains Cadmium)

Environmentally hazardous substances, solid, n.o.s.

Hazard Class Packing Group

Ш

Environmental hazards Dangerous for the environment

Product is a marine pollutant according to the criteria set by IMDG/IMO

No special precautions required **Special Precautions**

Additional information None known

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Section 15 - Regulatory Information

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

National Regulations Australia

See section 8 for national exposure control parameters.

| Component | Health Surveillance |
|---------------------|---|
| Cadmium | Listed |
| 7440-43-9 (10-20) | Demographic, medical and occupational history |
| | Health advice, including counseling on the effect of smoking on |
| | Cadmium exposure |
| | Physical examination with emphasis on the respiratory system |
| | Records of personal exposure |
| | Standard respiratory questionnaire to be completed |
| | Standardised respiratory function test, for example, FEV1, FVC |
| | and FEV1/FVC |
| | Urinary cadmium and .beta.2-Microglobulin |

Standard for the Uniform Scheduling of Medicines and Poisons

Classified as a scheduled poison according to the Standard for Uniform Scheduling of Medicines and Poisons.

| Component | Standard for the Uniform Scheduling of Medicines and Poisons |
|---|--|
| Dihydrogen potassium phosphate - | Schedule 10 listed |
| 7778-77-0 | |
| Polyacrylamides - 9003-05-8 | Schedule 4 listed - in preparations for injection or implantation: for tissue augmentation or for cosmetic |
| | use, or for veterinary use |
| Cuprate(2-), | Schedule 4 listed - for human use except: when separately specified in these Schedules, in |
| [[N,N'-1,2-cyclohexanediylbis[N-(carboxym | preparations for human internal use containing <= 5 mg of Copper per recommended daily dose, or in |
| ethyl)glycinato]](4-)-N,N',O,O',ON,ON']-, | other preparations containing <=5% of Copper compounds |
| [OC-6-21-(trans)] 19332-78-6 | Schedule 5 listed - in animal feed additives except in preparations containing <=1% of Copper |
| | Schedule 6 listed - except: when separately specified in these Schedules, in preparations for human |
| | internal use containing <=5 mg of Copper per recommended daily dose, pigments where the solubility |
| | of the Copper compounds in water is <=1 g/L, in feed additives containing <=1% of Copper, or in other |
| | preparations containing <=5% of Copper compounds |

Australian Industrial Chemicals Introduction Scheme (AICIS)

| Component | Australian Industrial Chemicals Introduction Scheme (AICIS) | Additional information |
|--|---|------------------------|
| Sodium sulfate - 7757-82-6 | Present | - |
| Dihydrogen potassium phosphate - 7778-77-0 | Present | - |
| Cadmium - 7440-43-9 | Present | - |
| Potassium pyrosulfate - 7790-62-7 | Present | - |
| Polyacrylamides - 9003-05-8 | Present | - |

Australian - Illicit Drug Precursors/Reagents Substance List

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

Chemicals of Security Concern

This product does not contain any substance(s) listed on the voluntary National Code of Practice for Chemicals of Security Concern

National pollutant inventory Subject to reporting requirements

| Component | National pollutant inventory |
|---------------------|-----------------------------------|
| Cadmium - 7440-43-9 | 10 tonne/yr. Threshold category 1 |

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| 2000 tonne/yr. Threshold category 2b |
|--------------------------------------|
| 60000 MWH. Threshold category 2b |
| 20 MW. Threshold category 2b |

Prohibition or notification/licensing requirements

Shown below are details of specific prohibition/notifications or licencing requirements when they apply.

This product does not contain any substance(s) subject to Prohibition, Authorization or Restriction.

| Component | Australia | New South Wales | Western Australia | New Zealand |
|---------------------|-----------|-----------------|-------------------|----------------------|
| Cadmium - 7440-43-9 | | | | Confirmed carcinogen |

International Inventories

| Component | AICS | NZIoC | EINECS | ELINCS | TSCA | DSL | NDSL | PICCS | ENCS | ISHL | IECSC | KECL |
|---|------|-------|-----------|--------|------|-----|------|-------|------|------|-------|----------|
| Sodium sulfate | Х | Х | 231-820-9 | - | Х | Х | - | Х | Х | Х | Х | KE-31609 |
| Dihydrogen potassium phosphate | Х | Х | 231-913-4 | - | Х | Х | - | Х | Х | Х | Х | KE-28622 |
| Glycine, N,N'-1,2-cyclohexaned iylbis[N-(carboxymethy l)-, trisodium salt | - | Х | - | - | - | Х | - | - | - | | Х | - |
| Cadmium | Х | Х | 231-152-8 | - | Х | Х | - | Х | Х | | Х | KE-04397 |
| Potassium pyrosulfate | Х | Х | 232-216-8 | - | Х | Х | - | Х | - | | Х | KE-12142 |
| Polyacrylamides | Х | Х | - | - | Х | Х | - | Х | Х | Х | Х | KE-29375 |
| Cuprate(2-), [[N,N'-1,2-cyclohexane diylbis[N-(carboxymeth yl)glycinato]](4-)-N,N', O,O',ON,ON']-, [OC-6-21-(trans)]- | | - | 242-968-9 | - | Х | Х | - | - | - | | Х | - |

Legend: X - Listed. '-' - Not Listed. XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B). **KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

International Regulations

Ozone Depletion Potential This product does not contain any known or suspected substance

Persistent Organic Pollutant This product does not contain any known or suspected substance

Rotterdam Convention (PIC) Not applicable

Basel convention on the control of transboundary movements of hazardous wastes and their dispoal

Take note that wastes may be subject to export, import, or transit controls pursuant to the Basel convention and/or local regulations implementing the Basel convention.

| Component | Basel Convention (Hazardous Waste) | Australian Hazardous Waste Act - Categories of Wastes to Be Controlled |
|---|------------------------------------|--|
| Cadmium - 7440-43-9 | Annex I - Y26 | Y26 |
| Cuprate(2-), | Annex I - Y22 | Y22 |
| [[N,N'-1,2-cyclohexanediylbis[N-(carboxym | | |
| ethyl)glycinato]](4-)-N,N',O,O',ON,ON']-, | | |
| [OC-6-21-(trans)] 19332-78-6 | | |

| Component | CAS No | OECD HPV | Restriction of | Seveso III Directive | Seveso III Directive |
|-----------|--------|----------|-------------------|------------------------------|------------------------------|
| | | | Hazardous | (2012/18/EC) - | (2012/18/EC) - |
| | | | Substances (RoHS) | Qualifying Quantities | Qualifying Quantities |

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| | | | | for Major Accident Notification | for Safety Report Requirements |
|--|------------|----------------|--------------------|------------------------------------|-----------------------------------|
| Sodium sulfate | 7757-82-6 | Listed | Not applicable | Not applicable | Not applicable |
| Dihydrogen potassium phosphate | 7778-77-0 | Listed | Not applicable | Not applicable | Not applicable |
| Glycine, N,N'-1,2-cyclohexanediylbis[N -(carboxymethyl)-, trisodium salt | 36679-96-6 | Not applicable | Not applicable | Not applicable | Not applicable |
| Cadmium | 7440-43-9 | Listed | 0.01% (Max. Conc.) | Not applicable | Not applicable |
| Potassium pyrosulfate | 7790-62-7 | Not applicable | Not applicable | Not applicable | Not applicable |
| Polyacrylamides | 9003-05-8 | Not applicable | Not applicable | Not applicable | Not applicable |
| Cuprate(2-), [[N,N'-1,2-cyclohexanediylbis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']-, [OC-6-21-(trans)]- | 19332-78-6 | Not applicable | Not applicable | Not applicable | Not applicable |

Authorisation/Restrictions according to EU REACH

| Component | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|-----------|---|---|--|
| Cadmium | - | Use restricted. See item 72. (see link for restriction details) Use restricted. See item 23. (see link for restriction details) Use restricted. See item 28. (see link for restriction details) Use restricted. See item 75. (see link for restriction details) | SVHC Candidate list - 231-152-8 - Carcinogenic, Article 57a;Specific target organ toxicity after repeated exposure, Article 57(f) - human health |

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

https://echa.europa.eu/authorisation-list

https://echa.europa.eu/candidate-list-table

https://echa.europa.eu/substances-restricted-under-reach

Section 16 - Other Information

Legend

AICS - Australian Inventory of Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

IECSC - Chinese Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

ICAO/IATA - International Civil Aviation Organization/International Air **Transport Association**

MARPOL - International Convention for the Prevention of Pollution from Ships

NZS 5433:2020 - Transport of Dangerous Goods on Land

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50% WEL - Workplace Exposure Limit **DNEL** - Derived No Effect Level

POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative

VOC - (Volatile Organic Compound)

NZIoC - New Zealand Inventory of Chemicals

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

CAS - Chemical Abstracts Service

ACGIH - American Conference of Governmental Industrial Hygienists

Predicted No Effect Concentration (PNEC)

IMO/IMDG - International Maritime Organization/International Maritime

Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

LC50 - Lethal Concentration 50%

ATE - Acute Toxicity Estimate

RPE - Respiratory Protective Equipment NOEC - No Observed Effect Concentration

BCF - Bioconcentration factor

PBT - Persistent, Bioaccumulative, Toxic

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Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards On basis of test data
Health Hazards Calculation method
Environmental hazards Calculation method

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and

hygiene.

Revision Date 14-Jul-2023

Revision Summary Update to GHS format.

This Safety Data Sheet (SDS) is prepared in accordance to and complies with the requirements of Safe Work Australia - Work Health and Safety Regulations (WHS Regulations).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet

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