SAFETY DATA SHEET



Section 1: Identification

Product identifier CENTURO™

Other means of identification

Product code KAS_CENTURO_NZ_EN

Recommended use of the chemical and restrictions on use

Recommended use Nitrogen Inhibitor
Restrictions on use None known.

Details of manufacturer or importer

Manufacturer

Manufacturer/Supplier Koch Agronomic Services, LLC

161 Hewletts Road, Mt. Maunganui, NZ 3001 kochmsds@kochind.com

+64 9 5727900

Emergency telephone

number

For Chemical Emergency

Call CHEMTREC day or night USA/Canada +1.800.424.9300

Outside USA/Canada - 1.703.527.3887

Section 2: Hazard identification

Classification of the hazardous chemical

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.

Label elements, including precautionary statements

Hazard symbol(s) None.
Signal word None.

Hazard statement(s) The mixture does not meet the criteria for classification.

Precautionary statement(s)

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Other hazards which do not

result in classification

None.

Supplemental information None.

Section 3: Composition/information on ingredients

Substance or mixture Mixture

Chemical property	CAS Number	Concentration (%)
Non-Hazardous Components	Mixture	< 85
Pronitridine	1373256-33-7	< 20

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in

percent by volume.

Section 4: First-aid measures

Description of necessary first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

CENTURO™ SDS New Zealand

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Personal protection for first-aid

responders

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

Symptoms caused by exposure

Medical attention and special

treatment

Direct contact with eyes may cause temporary irritation.

Treat symptomatically.

Section 5: Fire-fighting measures

Extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Extinguishing media to avoid Do not use water jet as an extinguisher, as this will spread the fire.

HAZCHEM Code Number None.

Specific hazards during fire

fighting

During fire, gases hazardous to health may be formed.

Special fire fighting

procedures

Use standard firefighting procedures and consider the hazards of other involved materials. Move

containers from fire area if you can do so without risk.

Protection of fire-fightersSelection of respiratory protection for firefighting: follow the general fire precautions indicated in

the workplace. Self-contained breathing apparatus and full protective clothing must be worn in

case of fire.

Hazards from combustion

products

Ammonia. Nitrogen Oxides

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

SDS.

Environmental precautions

Methods and materials for containment and cleaning up

Avoid discharge into drains, water courses or onto the ground.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

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Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Section 7: Handling and storage

Precautions for safe handling

Conditions for safe storage, including any incompatibilities

Observe good industrial hygiene practices.

Store in tightly closed container. Store away from incompatible materials (see section 10 of the

SDS).

Section 8: Exposure controls/personal protection

Control parameters Follow standard monitoring procedures

Occupational exposure limits No

No exposure limits noted for ingredient(s).

Biological limit values

Appropriate engineering controls

No biological exposure limits noted for the ingredient(s).

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, for example personal protective equipment (PPE)

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

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Section 9: Physical and chemical properties

Clear liquid. **Appearance** Liquid. Physical state Liquid. **Form**

Colour Clear. Colorless. Not available. Odour **Odour threshold** Not available. 10 - 11.2 pН Not available. Melting point/freezing point Not available. Initial boiling point and boiling

range

Not available. Flash point Not available. **Evaporation rate** Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Not available.

Explosive limit - lower (%) Not available. Explosive limit - upper Not available.

(%)

Vapour pressure Not available. Not available. Vapour density Not available. Relative density

Solubility(ies)

Solubility (water) Soluble.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available. Not available. **Decomposition temperature**

Other physical and chemical parameters

Density 10.50 lb/gal **Explosive properties** Not explosive. **Oxidising properties** Not oxidising. 20 - 40 cps **Viscosity**

Section 10: Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Elevated temperatures. Contact with incompatible materials.

Incompatible materials Acids. Potassium permanganate. Strong oxidising agents. Strong reducing agents.

Hazardous decomposition

toxicological characteristics

products

Ammonia. Nitrogen oxides.

Section 11: Toxicological information

Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected. Skin contact No adverse effects due to skin contact are expected. Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the Direct contact with eyes may cause temporary irritation. physical, chemical and

CENTURO™ SDS New Zealand

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Information on toxicological effects

Not available. Acute toxicity

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Not classified. Respiratory irritation

Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitiser.

Skin sensitisation This product is not expected to cause skin sensitisation.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Not classifiable as to carcinogenicity to humans. Carcinogenicity

ACGIH Carcinogens Not available.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified

Aspiration hazard Not an aspiration hazard.

Narcotic effects None known.

Section 12: Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

No data is available on the degradability of any ingredients in the mixture. Persistence and degradability

Bioaccumulative potential No data available.

Mobility in soil The product is soluble in water.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

Section 13: Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Disposal methods

Residual waste Dispose in accordance with applicable regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

None known.

Special precautions to be taken during disposal

Dispose in accordance with all applicable regulations.

Method of disposal that should not be used

Section 14: Transport information

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code

Section 15: Regulatory information

New Zealand Code of Practice for the Preparation of Safety Data Sheets (SDS) [No. HSNO CoP Applicable regulations

8-1 09-061.

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Section 16: Other information

References Not available.

Issued by

Not available.

Prepared by

Not available.

Disclaimer

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