

SAFETY DATA SHEET

AGRONOMIC SERVICES

Section 1 - Identification

Product identifier CENTURO™ U-PRO

Other means of identification

Synonyms KAS 135K58D

Recommended use of the chemical and restrictions on use

Recommended use Nitrification inhibitor. Supplement.

Restrictions on use None known.

Details of manufacturer or importer

Manufacturer/Supplier Koch Agronomic Services, LLC

> 4111 E 37th St N Wichita, KS 67220 US kochmsds@kochind.com

1.866.863.5550

Emergency For Chemical Emergency

> Call CHEMTREC Day or Night USA/Canada - 1.800.424.9300 Mexico - 1.800.681.9531

Outside USA/Canada - 1.703.527.3887

(collect calls accepted)

Section 2 - Hazard(s) identification

Classification of the hazardous chemical

Not classified. **Physical hazards**

Health hazards Acute toxicity, oral Category 4

Label elements, including precautionary statements

Hazard symbol(s)



Exclamation mark

Signal word Warning

Hazard statement(s) Harmful if swallowed.

Precautionary statement(s)

Prevention Wash thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. Rinse mouth. Response

Not assigned. Storage

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental information None.

Other hazards which do not

result in classification

None known.

Section 3 - Composition and information on ingredients

Mixture

CENTURO™ U-PRO SDS Australia Issue date: 06-September-2023

966284 Version #: 01 Revision date: -

Identity of chemical ingredients CAS number and other Concentration of unique identifiers ingredients Pronitridine 35 - 50 1373256-33-7 Propane -1,2 -diol ≤ 16 57-55-6

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.

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

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Ingestion

Get medical advice/attention if you feel unwell.

Personal protection for first-aid

responders

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

protect themselves. Show this safety data sheet to the doctor in attendance.

Symptoms caused by exposure Direct contact with eyes may cause temporary irritation.

Medical attention and special

treatment

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

under observation. Symptoms may be delayed.

Section 5 - Firefighting measures

Extinguishing media

Suitable extinguishing

equipment

Alcohol resistant foam. Powder. Carbon dioxide (CO2).

Unsuitable extinguishing

equipment

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

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

Hazchem code None.

General fire hazards

No unusual fire or explosion hazards noted.

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

Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear appropriate personal protective equipment.

Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be For emergency responders

advised if significant spillages cannot be contained. For personal protection, see 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.

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

Do not taste or swallow. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

CENTURO™ U-PRO SDS Australia Issue date: 06-September-2023

966284 Version #: 01 Revision date: -

Conditions for safe storage, including any incompatibilities

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

SDS).

Section 8 - Exposure controls and personal protection

Control parameters Follow standard monitoring procedures.

Occupational exposure limits

| Components | Туре | Value | Form |
|--|---------------------------------------|---------------------------------------|--------------------------------------|
| Propane -1,2 -diol (CAS 57-55-6) | TWA | 474 mg/m3 | Total vapour and particulates. |
| | | 10 mg/m3 | Particulate. |
| | | 150 ppm | Total vapour and particulates. |
| | | | |
| UK. OELs. Workplace Exposure | Limits (WELs) (EH40/2005 (Fou | ırth Edition 2020)), Table 1 | |
| UK. OELs. Workplace Exposure Components | Limits (WELs) (EH40/2005 (Fou Type | ırth Edition 2020)), Table 1 Value | Form |
| • | , ,, | *** | Form Total vapour and particulates. |
| Components Propane -1,2 -diol (CAS | Type | Value | Total vapour and |

Biological limit valuesNo biological exposure limits noted for the ingredient(s).

Control banding Not available.

Engineering controls Good general ventilation 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

particulates.

established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection Wear safety glasses with side shields (or goggles). Face shield is recommended.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Not available.

Not available.

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 Keep away from food and drink. 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.

Section 9 - Physical and chemical properties

Physical state Liquid. Liquid. **Form** Colour Purple. Odour Not available. **Odour threshold** Not available. pН 8.7 - 9.5Not available. Melting point/freezing point Boiling point and boiling range Not available. Flash point Not available. **Evaporation rate** Not available. Upper/lower explosive limits Not available. Explosion limit - lower (%) Explosion limit - upper (%) Not available.

CENTURO™ U-PRO SDS Australia

Issue date: 06-September-2023

966284 Version #: 01 Revision date: -

Vapour pressure Vapour density

1.243 g/ml (20C) Relative density

Solubility

Not available. Solubility (water) Not applicable. Flammability (solid, gas) Partition coefficient: Not available.

n-octanol/water

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** 100 - 150 cps **Viscosity Particle characteristics** Not available.

Data relevant with regard to physical hazard classes

No relevant additional information available.

Other physical and chemical parameters

Density 10.2 - 10.4 lb/gal **Explosive properties** Not explosive. **Oxidising properties** Not oxidising.

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 Contact with incompatible materials.

Incompatible materials Strong oxidising agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

Section 11 - Toxicological information

Information on possible routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Prolonged skin contact may cause temporary irritation. Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Harmful if swallowed.

Early onset symptoms related

to exposure

Direct contact with eyes may cause temporary irritation.

Delayed health effects from

exposure

None known.

Harmful if swallowed. **Acute toxicity**

Product Species Test Results

KAS_135K58 (CAS Mixture)

Acute

Oral

LD50 Wistar rat 667 mg/kg Components **Species Test Results**

Propane -1,2 -diol (CAS 57-55-6)

Acute Dermal

LD50 Rabbit 20800 mg/kg

Oral

LD50 Rat 22000 mg/kg

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

CENTURO™ U-PRO SDS Australia

966284 Version #: 01 Revision date: -Issue date: 06-September-2023 Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitiser.

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

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

Reproductive toxicityThis 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.

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.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

Propane -1,2 -diol (CAS 57-55-6)

-0.92

Mobility in soil No data available for this product.

Other adverse effects No data available.

Section 13 - Disposal considerations

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

contents/container in accordance with local/regional/national/international regulations.

Residual wasteDispose of in accordance with local 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).

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

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

disposal.

Section 14 - Transport information

ADG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not established.

the IBC Code

Section 15 - Regulatory information

Safety, health and environmental regulations

Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous

Chemicals.

Australia Medicines & Poisons Appendix B

Propane -1,2 -diol (CAS 57-55-6)

High Volume Industrial Chemicals (HVIC)

Propane -1,2 -diol (CAS 57-55-6) 10000 - 99999 TONNES See the regulation for additional

Issue date: 06-September-2023

information.

CENTURO™ U-PRO SDS Australia

Importation of Ozone Depleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10, as amended)

Not listed.

National Pollutant Inventory (NPI) substance reporting list

Not listed

Prohibited Carcinogenic Substances

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

Restricted Carcinogenic Substances

Not regulated.

Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto Protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region

| Australia | Australian Inventory of Industrial Chemicals (AICIS) | Yes |
|-----------------------------|--|-----|
| Canada | Domestic Substances List (DSL) | No |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | No |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | No |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |
| Taiwan | Taiwan Chemical Substance Inventory (TCSI) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | No |

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section 16 - Any other relevant information

Issue date 06September-2023

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Key abbreviations or acronyms AICIS: Australian Inventory of Industrial Chemicals.

Inventory name

used

CENTURO™ U-PRO SDS Australia

Issue date: 06-September-2023

On inventory (yes/no)*

Disclaimer

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CENTURO™ U-PRO SDS Australia

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