SAFETY DATA SHEET



1. Identification

Product identifier	CENTURO™
Other means of identification	
Product code	KAS_CENTURO_CA_EN
Recommended use	Supplement.
Recommended restrictions	None known.
Manufacturer/Importer/Supplier	/Distributor information
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)
2. Hazard identification	
Physical hazards	Not classified.
Health hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
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	None known.
Supplemental information	None.
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3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
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.		
4. 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 at	ttention if irritation develops a	and persists.
CENTURO™			SDS Can

Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	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. Ammonia. Nitrogen Oxides.
Special protective equipment and precautions for firefighters	Selection 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.
Fire fighting equipment/instructions	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	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.

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

Environmental precautions

7. Handling and storage

Precautions for safe handling	Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

8. Exposure controls/personal protection

No exposure limits noted for ingredient(s).		
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, such as personal protective equipment		
Wear safety glasses with side shields (or goggles).		
Wear appropriate chemical resistant gloves.		
Wear suitable protective clothing.		
In case of insufficient ventilation, wear suitable respiratory equipment.		
Wear appropriate thermal protective clothing, when necessary.		
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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.

9. Physical and chemical properties

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Appearance	Clear liquid.
Physical state	Liquid.
Form	Liquid.
Colour	Clear. Colorless.
Odour	Not available.
Odour threshold	Not available.
рН	10 - 11.2
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive 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.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	20 - 40 cps
Other information	
Density	10.50 lb/gal
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
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 products	Ammonia. Nitrogen oxides.

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 physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.
Information on toxicological effe	cts
Acute toxicity	Not available.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary 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.
Carcinogenicity	Not available.
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.
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.
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Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.
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.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	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).
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.

14. Transport information

TDG

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
the IBC CodeNot established.

15. Regulatory information

nadian regulations	This product has been classified in accordance with the hazard crite contains all the information required by the HPR.	ria of the HPR and the SDS
Controlled Drugs and Sub		
Not regulated.		
Export Control List (CEPA	1999, Schedule 3)	
Not listed.		
Greenhouse Gases		
Not listed.		
Precursor Control Regulat	ions	
Not regulated.		
ernational regulations		
Stockholm Convention		
Not applicable. Rotterdam Convention		
Not applicable. Kyoto Protocol		
Not applicable. Montreal Protocol		
Not applicable.		
Basel Convention		
Not applicable.		
ernational Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Nc
Canada	Domestic Substances List (DSL)	Nc
Canada	Non-Domestic Substances List (NDSL)	Nc
China	Inventory of Existing Chemical Substances in China (IECSC)	Nc
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Nc
Europe	European List of Notified Chemical Substances (ELINCS)	Nc
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Nc
New Zealand	New Zealand Inventory	Nc
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Nc
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Nc
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Nc
*A "Vaa" indicates this product of	complies with the inventory requirements administered by the governing country	s).

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List of abbreviations	LC50: Lethal Concentration, 50%. LD50: Lethal Dose, 50%.

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