# SAFETY DATA SHEET



### 1. Identification

Product identifier SCU (all Grades)

Other means of identification

Product code KAS\_SCU\_US\_EN

**Synonyms** SCU 39-0-0 \* SCU 35-0-0 \* SCU 37-0-0

Recommended use Fertilizer.

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(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes skin irritation.

**Precautionary statement** 

Prevention Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after

handling.

Response If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take

off contaminated clothing and wash before reuse.

**Storage** Store away from incompatible materials.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%	
Urea	57-13-6	75 - 90	
Sulfur	7704-34-9	10 - 25	

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< 5 Non-hazardous ingredients **Proprietary** 

#### Composition comments

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

This Safety Data Sheet is not a guarantee of product specification or NPK value(s). NPK content is on specified sales orders, customer invoices, or product specification sheets obtained from supplier.

#### 4. First-aid measures

Move to fresh air. Get medical attention if any discomfort continues. Inhalation

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

Dust in the eyes: Do not rub eyes. Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if irritation persists after washing.

Ingestion Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Symptoms can include irritation, redness, scratching of the cornea, and tearing. Eye contact: Most important

Skin contact: Causes skin irritation. symptoms/effects, acute and

Dust may irritate throat and respiratory system and cause coughing. delayed

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

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions Use fire-extinguishing media appropriate for surrounding materials.

None known.

Urea is non-combustible under most conditions. However, during a fire, irritating/toxic gases may be generated. The dust can be ignited at very high temperatures, but not expected to explode (minimum ignition temperature (cloud) = 900 deg C.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Move containers from fire area if you can do it without risk. Use water spray to prevent dust formation, absorb heat, keep containers cool and protect fire-exposed material.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid inhalation of dust and contact with skin and eyes. Ensure adequate ventilation. Wear suitable protective clothing. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. After removal flush contaminated area thoroughly with water.

Never return spills to original containers for re-use.

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter drains, sewers or watercourses.

### 7. Handling and storage

Precautions for safe handling

Avoid generation and spreading of dust. Avoid inhalation of dust and contact with skin and eyes. Use only with adequate ventilation. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Keep container tightly closed. Store in a cool, dry, well-ventilated place. Store away from incompatible materials.

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### 8. Exposure controls/personal protection

### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Dust	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFR 1	1910.1000)		
Components	Туре	Value	Form
Dust	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Limit Va	alues		
Components	Туре	Value	Form
Dust	TWA	3 mg/m3	Respirable particles
		10 mg/m3	Inhalable particles.
US. Workplace Environmental	Exposure Level (WEEL) Guides		
Components	Туре	Value	Form
Urea (CAS 57-13-6)	TWA	10 mg/m3	Total particulate.
ogical limit values	No hiological exposure limits noted t	for the ingredient(s)	

**Biological limit values** 

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

Appropriate engineering controls

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of

inhalation of dust.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Use tight fitting goggles if dust is generated.

Skin protection

Respiratory protection

Hand protection Risk of contact: Wear protective gloves. Suitable gloves can be recommended by the glove

supplier.

Other Risk of contact: Wear appropriate clothing to prevent any possibility of skin contact.

Trisk of contact. Wear appropriate domining to prevent any possibility of skin contact.

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear air supplied respiratory protection if exposure concentrations are unknown. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR

1910.134 and ANSI Z88.2.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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. Handle in accordance with good industrial hygiene and safety

practice.

## 9. Physical and chemical properties

**Appearance** 

Physical state Solid.

Form Granular solid.

Color Yellow.

Odor Faint sulfur.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Evaporation rate Not applicable.

Flammability (solid, gas) Not available.

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Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Vapor pressureNot available.Vapor densityNot applicable.

Relative density

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

Not available.

Not available.

Other information

**Explosive properties** Not explosive. **Oxidizing properties** Not oxidizing.

# 10. Stability and reactivity

Reactivity Reacts violently with strong oxidants, nitrites, inorganic chlorides, chlorites and perchlorates

causing fire and explosion hazard.

Chemical stability

Normally stable. May gradually give off ammonia. The product is hygroscopic and will absorb water

by contact with the moisture in the air.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

**Conditions to avoid** Moisture. High temperatures. Contact with incompatible materials.

**Incompatible materials** Strong oxidizing agents. Nitric acid. Nitrites.

**Hazardous decomposition** 

products

Carbon oxides. Nitrogen oxides (NOx). Ammonia. Biuret.

# 11. Toxicological information

Information on likely routes of exposure

**Inhalation** High concentrations of dust may irritate throat and respiratory system and cause coughing.

Skin contact Causes skin irritation.

Eye contact Dust may irritate the eyes.

**Ingestion** May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms can include irritation, redness, scratching of the cornea, and tearing.

Information on toxicological effects

Acute toxicity May cause discomfort if swallowed.

Components Species Test Results

Sulfur (CAS 7704-34-9)

Acute

Dermal

LD50 Rat > 2000 mg/kg, 24 hours

Urea (CAS 57-13-6)

Acute

Oral

LD50 Rat 14300 mg/kg

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/eye

irritation

May cause irritation through mechanical abrasion.

Respiratory or skin sensitization

 $\textbf{Respiratory sensitization} \qquad \text{Not classified}.$ 

**Skin sensitization** Not a skin sensitizer.

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Germ cell mutagenicity Not classified.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Not

classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Not classified.

Specific target organ toxicity -

single exposure

Inhalation of dusts may cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

Chronic effects Frequent inhalation of dust over a long period of time increases the risk of developing lung

diseases.

**Further information** No other specific acute or chronic health impact noted.

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.

Components Species Test Results

Sulfur (CAS 7704-34-9)

Aquatic

Fish LC50 Western mosquitofish (Gambusia affinis) > 10000 mg/l, 96 Hours

Urea (CAS 57-13-6)

Aquatic

Fish LC50 Leuciscus idus > 6810 mg/l, 96 hours

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Partition coefficient n-octanol / water (log Kow)

Urea (CAS 57-13-6) -2.11

**Mobility in soil** This product is water soluble and may disperse in soil.

Other adverse effects No data available.

13. Disposal considerations

**Disposal instructions**Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all

applicable regulations.

Hazardous waste code Not regulated.

Waste from residues / unused

products

Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

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

emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

**US federal regulations** This product is hazardous according to OSHA 29 CFR 1910.1200.

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TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

**US** state regulations This product does not contain a chemical known to the State of California to cause cancer, birth

defects or other reproductive harm.

**US. Massachusetts RTK - Substance List** 

Sulfur (CAS 7704-34-9)

US. New Jersey Worker and Community Right-to-Know Act

Sulfur (CAS 7704-34-9)

US. Pennsylvania Worker and Community Right-to-Know Law

Sulfur (CAS 7704-34-9)

**US. Rhode Island RTK** 

Not regulated.

**US. California Proposition 65** 

Not Listed.

International Inventories

Country(s) or region Inventory name On inventory (yes/no)\*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory \*A "Yes" indicates this product complies 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).

16. Other information, including date of preparation or last revision

Issue date 20-May-2015

**Revision date** Version # 01

HMIS® is a registered trade and service mark of the NPCA. **Further information** 

**HMIS®** ratings

Flammability: 1 Physical hazard: 0

NFPA ratings

SDS US SCU (all Grades)

927266 Version #: 01 Revision date: -Issue date: 20-May-2015 Yes

#### List of abbreviations

LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%.

References

ECHA CHEM

EPA: Acquire database

HSDB® - Hazardous Substances Data Bank

**RTECS** 

**Disclaimer** 

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