

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Sulfur Coated Urea (SCU)

Section 1: CHEMICAL PRODUCT

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Section 2: COMPOSITION/INFORMATION ON INGREDIENTS

This product is not considered hazardous under The Hazard Communication Standard 29 CFR 1910.1200 although it does contain the following materials:
Urea (CAS No. 57-13-6) and Sulfur (CAS No. 7704-34-9).
OSHA Nuisance dust limit of 15mg/M₃ (total) and 5mg/M₃ (respirable) & ACGIH Nuisance dust limit of 10mg/M₃ (inhalable) and 3mg/M₃ (respirable) may apply to this product.

Section 3: HAZARDS IDENTIFICATION

Primary routes of entry: x skin x eye x inhalation x ingestion

SIGNS & SYMPTOMS OF EXPOSURE: A cute: Product may be a slight skin or eye irritant.

Ingestion may cause burning sensation of mouth & throat in addition to abdominal pain. C hronic: None known.

Section 4: FIRST AID MEASURES

Eyes: Flush promptly with plenty of water for at least 15 minutes.

Skin: Wash affected area promptly with soap and water.

For eye or skin contact, see a physician if irritation develops.

Inhalation: Remove to fresh air. Obtain medical assistance if breathing difficulties occur.

Ingestion: If patient is conscious, give _ to 1 glass of water to rinse out mouth. DO NOT induce vomiting. Get medical attention.

Note(s) to physician: Treat symptomatically.

Medical Conditions Aggravated by Exposure: None known

Section 5: FIRE FIGHTING MEASURES

SCU is not flammable.

EXTINGUISHING MEDIA: x Foam x Water x Dry chemical x CO₂

Special Fire Fighting Procedures: Do not breathe fumes. Firefighters should wear NIOSH approved self contained breathing apparatus and protective clothing. Prevent runoff from entering drains, sewers or any body of water. Sulfur coated urea may become slippery when wet; guard against falls. Remove product from area of fire at first opportunity.

Unusual Fire & Explosion Hazards: Do not breathe fumes. If heated to decomposition, product will give off oxides of carbon, nitrogen and sulfur & ammonia. Fine dust dispersion in air may form an explosive mixture.

Section 6: ACCIDENTAL RELEASE MEASURES

IF MATERIAL IS SPILLED: Wear proper protective equipment (see Section 8). Sweep, vacuum or shovel material into labeled container with minimum generation of dust for reuse or disposal. Ensure that disposal is in compliance with local, state or federal regulations. Do not allow product to contaminate any body of water. Prevent large quantities from contacting vegetation.

Section 7: HANDLING & STORAGE

Handling: Avoid contact with skin, eyes and clothing. Do not take internally. Avoid breathing dust. Do not eat, drink or smoke while handling product. Wash after handling. Do not apply directly to waters. Do not contaminate water by disposal of equipment wash waters.

Storage: Store in a cool, dry area out of reach of children and animals. Do not store where temperatures will exceed 270 \oplus F.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective equipment suggested for outdoor applications: Gloves or goggles are not normally required. For high levels of airborne dust, use chemical goggles. For prolonged or repeated contact, wear neoprene or PVC gloves.

If airborne dust levels are high, use a combination of engineering controls (ventilation) and personal protection (NIOSH/MSHA approved respirator for dusts, mists & fumes) to reduce exposure.

Section 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance & Odor: Odorless yellow granules. Bulk density: 0.78-0.86 G/CM p H: 6.9 (10% w/w).

Section 10: STABILITY & REACTIVITY

Stability: Stable. Conditions to Avoid: Excessive heat; absorbs moisture above 60% relative humidity.

Incompatibility: Strong oxidizers and hypochlorite. Hazardous Decomposition Products: If heated to decomposition, will give off toxic fumes of ammonia, and oxides of carbon, nitrogen & sulfur.

Hazardous Polymerization: Will Not Occur.

Section 11: TOXICOLOGICAL INFORMATION

TOXICITY DATA: ORAL (acute): ND by laboratory tests. DERMAL (acute): ND by laboratory tests. INHALATION (acute): LC₅₀ (rat; 4 hrs.)= ND. (Product is expected to have low or no toxicity). Positive Teratogen/Mutagen/Carcinogen (NTP): NO. Potential Carcinogen OSHA/IARC: NO.

Section 12: ECOLOGICAL INFORMATION

Toxic to: fish birds wildlife x other: keep out of any body of water.

Section 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method(s): Dispose according to USEPA guidelines as outlined in RCRA. Follow state and local regulations. Be certain bag is completely empty before disposal. Urea is not a RCRA listed chemical.

Section 14: TRANSPORTATION INFORMATION

DOT Shipping Information: not regulated.

SEC. 302: NA S EC. 304: NA S EC. 313: NA C ERCLA: NA C AA: NA

Section 15: REGULATORY INFORMATION

SARA Information: SARA TITLE III; SEC.311/312 HAZARD CATEGORIES

N Immediate (Acute) Health N Sudden Release of Pressure

N Delayed (Chronic) Health N Reactivity N Fire

Section 16: OTHER REGULATORY INFORMATION

NFPA HAZARD RATING

Health 2 moderate

Fire 1 slight

Reactivity 0 negligible

State Right-to-Know (RTK) Hazardous Substance: Urea is not known to be a hazardous/regulated compound in any state regulations. Check with specific state authorities since regulations vary within states.