

HILLSBORO ELEMENTARY SCHOOLS

215 S.E. SID AND. HILLSBORD, OR \$7723 MATERIAL SAFETY DATA SHEET



P. O. BOX 540 SYLACAUGA, ALABAMA 35150

DATE: June, 1992

MSDS NO.: N-73

NEW

REVISED

REPLACES MSDS NO.:

### SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: Suifurkote II

CHEMICAL NAME: Urea, Sullur, Hydrocarbon Wax Mixture.

Amorphous Slika

INDUSTRIES, INC.

Coated Di-amide of Carbonic COMMON NAME, SYNONYMS:

Acid (Carbamide, Carbonyi-

dlamide), SCU

GRADE: 31-0-0 to 40-0-0

CAS NUMBER: None Established (mixture)

Chemical formula: co(nh.), + 8

CHEMICAL FAMILY: Arnido, Sulfur

### SECTION II - PHYSICAL DATA

30/LING POINT: Sulfur (rhombic)

444.8°C(832.3°F) Urea (decomposes) Wax (congeals)

VAPOR PRESSURE: Negligible

VAPOR DENSITY: Negligible

SOLUBILITY IN WATER: Urea; 100 parts in 100 parts water

at 17°C

pH: Urea (10% solution) 7.2

FLASH POINT: Suilur 188°C o/c

Wax 200°C nd

MELTING POINT: Sulfur (momble)

112.8°C (235.0°F) Urea 132.7°C (270.9°F)

Wax 68°C (154.4°F)

SPECIFIC GRAVITY: Ures 1.32

Sulfur 2.07

Wax 0.8 -

PERCENT VOLATILE BY VOLUME: NA

EVAPORATION RATE: Negligible

OTHER: Bulk Density: 47-49 lb./ft

ANGLE OF REPOSE: 30-32°

APPEARANCE AND ODOR: Small yellow to beige solid spheres. Very low odor level, slight hydrocarbon, slight suitur, slight hydrogen suifide (rotten egg) and ammonia odors possible.

### SECTION 111 - COMPOSITION

TYPICAL COMPOSITION

67.0 to 68.0

2.5 to 1.5

CAS NUMBER

57-13-6 7704-34-9 Mixture

Urea Sulfur Sealant

29.5 to 10.0

# SECTION IV - HEALTH DATA

#### IMMEDIATE PIRET AID PROCEDURES:

EYES: Flush thoroughly with water. Seek medical attention if irritation persists.

8KIN: Wash thoroughly with soap and water.

INHALATION: Remove to fresh air. If discomfort continues, seek medical sitention.

INGESTION: If swallowed and the person is conscious, give a large amount of water to drink and make person vomit. Seek medical attention.

#### **HEALTH EFFECTS:**

EYES; Urea can irritate eyes. Sullur le a human eye imitant at 8 ppm. Conditioner (diatomaceous earth) can irritate eyes.

SKIN: Urea may irritate skin. Conditioner can dry out skin and cause challing.

INHALATION: No incidents of dust inhalation reported.

INGESTION: The LDLo (lethal dose low) administered orally to domestic animals is 511 mg/kg.

EXPOSURE STANDARD: None established. THE OSHA Nulsance dust limit of 15 mg/m² or the ACGIH ruisance dust TLV of 10 mg/m² for the eight-hour time-weighted average applies.

#### SYMPTOMS OF OVEREXPOSURE:

ACUTE: See prior Health Ellects section. Victim may exhibit an eczamatous reaction (rash) from skin contact with sulfur.

CHRONIC: Chronic Inhalation of sulfur dust can cause irritation of mucous membranes.

NOTES TO PHYSICIAN: in a fire, dangerous levels of sulfur oxides, hydrogen sulfide and nitrogen oxides may be generated. Short-term exposure to smoke, fumes, and gases can lead to irreversible lung injury without early signs and symptoms.

FOR HEALTH EMERGENCIES CALL YOU LOCAL POISON CONTROL CENTER

### SECTION V - FIRE AND EXPLOSION PROTECTION

FLASH POINT: Not applicable

FLAMMABLE LIMITS: Not applicable

AUTOIGNITION TEMPERATURES: Not applicable

EXTINGUISHING MEDIA: Water, sand, or fine earth. Steam smothering can be used in relatively small enclosures. Material is essentially non-flammable.

FIRE FIGHTING PROCEDURES: Wear full protective clothing and self-contained breathing apparatus. Use agents appropriate to surrounding materials to extinguish fire. Evacuate downwind if large quantities are involved in fire.

UNUSUAL FIRE OR EXPLOSION HAZARDS: Ures may decompose to cyanuric acid, ammonia, hydrogen cyanuric

# SECTION VI - SPECIAL PROTECTION INFORMATION

VENTILATION: Provide local or general ventilation to keep dust below OSHA nulsance dust limit of 15 mg/m².

EYES: Use of safety glasses (preferably with side shields) is recommended.

SIGN: No protection normally required. If irritation occurs, long sleeves and impervious gloves should be worn.

RESPIRATORY: A NIOSH - approved respirator should be used when dust exposure exceeds the OSHA standard of 15 mg/m².

OTHER: Washing facilities should be available.

# SECTION VII - REACTIVITY DATA

STABILITY: Compound is stable. Hazardous polymerization will not occur.

INCOMPATIBILITY: Separate from inorganic acids, hypochlorides, aikalles, chiorates, nitrates and other oxidizing materials. Urea is corrosive to carbon steel, copper, and copper alloys.

HAZARDOUS DECOMPOSITION PRODUCTS: Above 132.7°C(271°F) urea decomposes to bluret, cyanuric acid, cyanic acid, ammonia, and carbon dioxide. Sulfur forms aulfur oxides when burned. Hydrogen sulfide is a reaction product. Nitrogen oxides may form in fire conditions. Hydrogen cyanide may be formed.

ONDITIONS TO AVOID: Avoid healing above 95°C(203°F).

# SECTION VIII - STORAGE, DISPOSAL AND SPILL PROCEDURES

STORAGE: Guard against dust accumulation. Keep dry. Wet urea can cause slippery conditions. Do not store with Ammonium Nitrate as the mixture absorbs moisture quickly.

PROCEDURE IN CASE OF SPILL OR RELEASE: Sulfur-coated urea is a plant food. However, large spills could possibly kill vegetation or cause illness in animals. Contamination of waterways may cause fish kills. Prevent large quantities from contacting vegetation or waterways. Keep animals away from large spills.

REPORTABLE QUANTITY: Non established.

WASTE DISPOSAL METHOD: If uncontaminated, recover and reuse as product. Consult State or Federal environmental regulatory agencies for acceptable disposal procedures and disposal locations. Disposal in streems or sewers may be contrary to regulations. If contaminated with other materials, the nature and extent of contamination may require use of specialized disposal methods.

#### SECTION IX - TRANSPORTATION REQUIREMENTS

D.O.T. NAME: Not applicable

UN/NA NO.: Not applicable

D.O.T. CLASSIFICATION: Not listed by D.O.T. regulations

LABEL REQUIRED: None

FOR TRANSPORTATION EMERGENCIES CALL CHEMTREC 1-800-424-9300

# SECTION X - ADDITIONAL INFORMATION

# NOTICE FROM PURSELL INDUSTRIES CONCERNING THIS MATERIAL SAPETY DATA SHEET

THE INFORMATION CONTAINED HEREIN IS OFFERED ONLY AS A GUIDE TO THE HANDLING OF THIS SPECIFIC MATERIAL. SINCE SUCH INFORMATION DOES NOT RELATE TO USE OF THE MATERIAL WITH ANY OTHER MATERIAL OR IN ANY PROCESS, ANY PERSON USING THIS INFORMATION MUST DETERMINE FOR HIMSELF ITS SUITABILITY FOR ANY PARTICULAR APPLICATION. THE BUYER AND USER ASSUMES ALL RISK AND LIABILITY OF USE, STORAGE AND/OR HANDLING OF THIS PRODUCT NOT IN ACCORDANCE WITH THE TERMS OF THE PRODUCT LABEL.

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