

MATERIAL SAFETY DATA SHEET

Chemical Product

Product Name: UREASE ACTIVE MEAL (Jack Bean

meal)

CAS#: - 9002-13-5

Synonym: Jack Bean Meal Chemical Name: Not applicable. Chemical Formula: Not applicable.

Composition and Information on Ingredients

Name	S.K.U	% by Weight
UREASE ACTIVE MEAL	GCS-4273	100
Isopropyl alcohol	67-63-0	37
Methyl alcohol	67-56-1	0.8
Phenolphthalein	77-09-8	0.03
Bromothymol blue sodium salt	34722-90-2	0.03
Thymol blue, sodium salt	81012-93-3	0.03
Methyl red, sodium salt	845-10-3	0.02
Water	7732-18-5	62.1

Hazards Identification

Potential Acute Health Effects:

Very hazardous in case of eye contact (irritant), of ingestion. Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator). Non-corrosive for skin. Non-sensitizer for skin. Inflammation of the eye is characterized by redness, watering, and itching.

Potential Chronic Health Effects:

Non-corrosive for skin. Non-sensitizer for skin. Non-permeator by skin. CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: PROVEN [Methyl alcohol] the substance is toxic to kidneys, lungs, the nervous system, mucous membranes, the reproductive system. Repeated or prolonged exposure to the substance can produce target organs damage.

First Aid Measures



Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to- mouth resuscitation. Seek medical attention.

Ingestion:

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: The lowest known value is 399°C (750.2°F) (Isopropyl alcohol). Flash Points: The lowest known value is CLOSED CUP: 11.67°C (53°F).

(TAG). OPEN CUP: 18.3°C (64.9°F). (Cleveland). (Isopropyl alcohol).

Flammable Limits: The greatest known range is LOWER: 2% UPPER: 12% (Isopropyl

alcohol)

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances:

Flammable in presence of open flames and sparks, of oxidizing materials. Slightly flammable to flammable in presence of heat, of combustible materials.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. Slightly explosive to



explosive in presence of oxidizing materials.

Fire Fighting Media and Instructions:

Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog.

Special Remarks on Fire Hazards:

Explosive in the form of vapor when exposed to heat or flame. May form explosive mixtures with air. Vapor may travel considerable distance to source of ignition and flash back. CAUTION: MAY BURN WITH NEAR INVISIBLE FLAME (Isopropyl alcohol).

Special Remarks on Explosion Hazards: Not available.

Accidental Release Measures

Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill:

Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Handling and Storage

Precautions:

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/spray. In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes

Storage:

Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place.

Ground all equipment containing material. A refrigerated room would be preferable for materials with a flash point lower than 37.8°C (100°F).

Exposure Controls/Personal Protection

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.



Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

Isopropyl alcohol TWA: 400 STEL: 500 (ppm) from ACGIH (TLV) [1995] TWA: 980 STEL: 1230 (mg/m3)

from ACGIH [1995] Methyl alcohol TWA: 200 STEL: 250 (ppm) from ACGIH (TLV) [1995] TWA: 262 STEL: 328 (mg/m3) from ACGIH [1995] Consult local authorities for acceptable exposure limits.

Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor: Not available.

Taste: Not available.

Molecular Weight: Not applicable.

Color: Not available.

pH (1% soln/water): Neutral.

Boiling Point: The lowest known value is 82.22°C (180°F) (Isopropyl alcohol). Weighted

average: 93.36°C (200°F)

Melting Point: May start to solidify at -89.5°C (-129.1°F) based on data for:

Isopropyl alcohol. Critical Temperature: Not available. Specific Gravity: Weighted average: 0.91 (Water = 1)

Vapor Pressure:

The highest known value is 33 mm of Hg (@ 20° C) (Isopropyl alcohol). Weighted average: 23.31 mm of Hg (@ 20° C)

Vapor Density: The highest known value is 2.07 (Air = 1) (Isopropyl alcohol). Weighted average: 1.16 (Air

= 1

Volatility: Not available.

Odor Threshold: The highest known value is 50 ppm (Isopropyl alcohol) Water/Oil Dist. Coeff.: The product is equally soluble in oil and water. Ionicity (in Water): Not available.

Dispersion Properties:

Is not dispersed in methanol, diethyl ether. See solubility in water, methanol, diethyl ether, n-octanol, acetone.

Solubility: Easily soluble in cold water, hot water, methanol, diethyl ether, n-octanol, acetone.

Stability and Reactivity Data

Stability: The product is stable.



Instability Temperature: Not available.

Conditions of Instability:
Not available.

Incompatibility with various substances: Slightly reactive to reactive with oxidizing agents.

Corrosivity: Non-corrosive in

presence of glass.
Special Remarks on
Reactivity: Not available.
Special Remarks on
Corrosivity: Not available.
Polymerization: No.

Toxicological Information

Routes of Entry: Eye contact. Inhalation. Ingestion.

Toxicity to Animals:

WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR

EXPOSURE. Acute oral toxicity (LD50): 9730 mg/kg (Mouse) (Calculated value for the mixture). Acute dermal toxicity (LD50): 34595 mg/kg (Rabbit) (Calculated value for the mixture). Acute toxicity of the vapor (LC50): 61155 ppm 4 hour(s) (Rat) (Calculated value for the mixture).

Chronic Effects on Humans:

DEVELOPMENTAL TOXICITY: PROVEN [Methyl alcohol] The substance is toxic to kidneys, lungs, the nervous system, mucous membranes, the reproductive system.

Other Toxic Effects on Humans:

Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator). Non-corrosive for skin. Non-sensitizer for skin.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Detected in maternal milk in human. (Isopropyl alcohol)

Special Remarks on other Toxic Effects on Humans: Narcotic. (Methyl alcohol)

Toxicological Data on Ingredients:

Isopropyl alcohol: ORAL (LD50): Acute: 5045 mg/kg [Rat]. 3600 mg/kg [Mouse]. DERMAL (LD50): Acute: 12800 mg/kg [Rabbit]. VAPOR (LC50): Acute: 22627.4 ppm 4 hour(s) [Rat]. Methyl alcohol: ORAL (LD50): Acute: 5628 mg/kg [Rat.]. DERMAL (LD50): Acute: 15800 mg/kg [Rabbit.]. VAPOR (LC50): Acute: 64000 ppm 4 hour(s) [Rat.].



Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not

likely. However, long term degradation products may arise

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Transformation Information

Land transport

(ADR-RID)

Proper shipping

name:

METHANOL UN

N°: 1230 H.I. nr: 336 ADR - Class: 3

Sea transport (IMDG) [English only] Proper shipping name: METHANOL UN

N°: 1230

IMO-IMDG - Class or division: 3: Flammable liquid. (6.1: Toxic substances.)

IMO-IMDG - Packing group: II

Air transport (ICAO-IATA) [English only]

Proper shipping name: METHANOL

UN N°: 1230

IATA - Class or division: 3: Flammable liquid. (6.1: Toxic substances.)

IATA - Packing group: II

Other Regulatory Information

Federal and State Regulations:

Pennsylvania RTK: Isopropyl alcohol; Methyl alcohol Massachusetts RTK: Isopropyl alcohol; Methyl alcohol TSCA 8(b) inventory: Isopropyl alcohol; Methyl alcohol; Phenolphthalein; Bromothymol blue sodium salt; Thymol blue, sodium salt; Methyl red, sodium salt; Water SARA 313 toxic chemical notification and release reporting: Isopropyl



alcohol; Methyl alcohol CERCLA: Hazardous substances.: Methyl alcohol;

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada):

CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-

2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC): R11- Highly flammable. R38- Irritating to skin. R41- Risk of serious damage

to eyes.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 1
Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:



The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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