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MATERIAL SAFETY DATA SHEET

MANUFACTURED BY: Ramy Turf Products
1329 North Riverfront Drive
Mankato, MN 56001

Emergency Phone: 800-658-7269

1) PRODUCT IDENTIFICATION / COMPOSITION

PRODUCT TRADE NAME: RX – 3 Guar Tack

DATE PREPARED: May 25, 2008

INGREDIENT	CAS #	% WEIGHT	EXPOSURE LIMITS
Guar Gum	9000-30-0	95 to 98	5 mg/m ³ (respirable) PEL=TWA 3 mg/m ³ (respirable) TLV-TWA 10 mg/m ³ (inhalable dust) TLV-TWA

2) HAZARDS

HAZARD CLASSIFICATION:
Proprietary Dispersants 2 to 5 Irritant, Sensitizer, Combustible Dust
5 mg/m³ PEL-TWA-TLV

HAZARDOUS INGREDIENTS	CAS#	LIMIT
NONE		

3) PHYSICAL DATA

APPEARANCE: Cream White Hydroscopic Fine Granular
ODOR: Bean like
SPECIFIC GRAVITY: N/A
BOILING POINT: N/A
FREEZING POINT: N/A

BULK DENSITY: 1.60
SOLUBILITY IN WATER: complete
pH: 5 -8 In Distilled Water
VOLATILES: None
OCTANOL/WATER PARTITION COEFFICIENT: N/A

N/A = NOT APPLICABLE

4) FIRE AND EXPLOSIVE DATE

FLASH POINT, F, COC: None
FLAMMABLE LIMITS: Lower Limit: 0.040 oz/cf Upper Limit: Not Determined
AUTO IGNITION TEMPERATURE: Not Determined
EXTINGUISHING MEDIA: Dry Chemical, Foam or Carbon Dioxide
FIRE & EXPLOSIVE HAZARD: Firefighters should use self-contained breathing apparatus to avoid exposure to smoke and vapor
FIRE & EXPLOSIVE HAZARD: Avoid creating dust, keep away from excessive heat, sparks and open flames. As with all dusty materials, use preventative measures to control dust.

5) REACTIVITY DATA

STABILITY: Product Is Stable
INCOMPATIBILITY: Avoid Open Flame / Contact With Strong Oxidizing Agents
DECOMPOSITION PRODUCTS: Combustion May Produce Carbon Dioxide / Monoxide
HAZARDOUS POLYMERIZATION: Will Not Occur

6) HEALTH HAZARD DATA

SYMPTOMS

ROUTES OF EXPOSURE: Ingestion, Eyes and Skin

EYES: May Cause Pain, Excessive Watering, Redness, Stinging

SKIN: Prolonged Exposure or Repeated Exposure May Cause Skin Irritation and Drying

7) TOXICOLOGICAL INFORMATION

GUAR GUM: Oral rat LD50: 9.4 g/kg

DISPERSANT: Oral rat LD50: 1700 mg/kg

Guar Gum is a natural food additive, although direct use in powder or pill form is banned by the FDA due to the risk of respiratory or gastrointestinal blockage.

FIRST AID

EYES: Irrigate Immediately With Water For at Least 5 Minutes – Consult Physician If Irritation Persists

SKIN: Wash Off in Flowing Water or Shower

INGESTION: No adverse effect anticipated by this route of exposure incidental to proper industrial handling. For accidental ingestion of copious quantities by children or appearance of symptoms noted in Section IV, contact a physician prior to taking any medical action.

NOTE TO CARE AID ATTENDENTES: Provide supportive care, consult and have available MSDS sheet and make said information known and available to attending medical support personnel.

8) PRECAUTIONS FOR SAFE HANDLING AND USE

ACTION TO TAKE FOR SPILL/LEAKS: Contain spills by diking with dirt, sand or other absorbent material. Rope off area to prevent inadvertent spread of spill. Place leaking containers in overpack containers or transfer material to clearly marked new containers. Upon discovery of leak or spillage, notify proper supervisory personnel and if situation warrants, notify the proper Local or State hazardous waste response units prior to taking any action other than initial emergency response. All materials used to absorb leak or spill should be handled and disposed of in accordance to Local, State and Federal environmental laws. Workers performing clean-up duties should be made aware of any potential health hazards and must wear the correct protective clothing and devices needed to perform the duties in safe and proper manner.

PRODUCT DISPOSAL: Excess product that cannot be used without violating label instructions must be disposed of in a manner that is in full compliance of Local, State and Federal Laws.

CONTAINER DISPOSAL: Check with Local and State authorities for proper disposal prior to offering for recycling, incineration or sanitary landfill. Containers sent to local landfills should be triple rinsed, punctured and crushed prior to disposal.

HANDLING & STORAGE: Keep away from water. Material will dissolve in the presence of moisture. High humidity will cause product to cake.

9) CONTROL MEASURES

RESPIRATORY PROTECTION:

Not Required

VENTILATION:

No Special Requirements

PROTECTIVE GLOVES:

Chemical Resistant Rubber Gloves

EYE PROTECTION:

Wear Eye Protection

WORK / HYGENIC PROTECTION:

Avoid Contact With Eyes, Skin, Clothing, Wash Thoroughly.

10) TRANSPORTATION INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

Proper Shipping Name: Not Regulated

Hazard Class: N/A

UN/NA Code: N/A

Packing Group: N/A

Labels Required: N/A

11) REGULATORY STATUS:

The United States Food & Drug Administration, the European Economic Community and the World Health Organization accept guar gum as a food additive/ingredient providing it meets specified purity standards and dosage limits. Maximum usage levels permitted may vary from country to country. Guar gum has been affirmed as GRAS by the United States Food & Drug Administration under title 21, CFR, part 184.1339; it is listed as item G.3 of Table IV, Division 16, of the Canadian Food and Drug Regulations and referenced E-412 under EEC Council Directives.

SUPERFUND AMENDMENTS & REAUTHORIZATION ACT (SARA) TITLE III INFORMATION:

SARA Section 311/312 Hazard Categories: Fire Hazard, Acute Health

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 13: None

NFPA Hazard Ratings:

Health: 1 Flammability: 1 Reactivity: 0

HMIS Hazard Ratings:

Health: 1 Flammability: 1 Reactivity: 0