**ACACIA**

**MATERIAL SAFETY DATA SHEET**

FISHER SCIENTIFIC
CHEMICAL DIVISION
1 REAGENT LANE
FAIR LAWN NJ 07410
(201) 796-7100

THIS INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. HOWEVER, WE MAKE NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO SUCH INFORMATION, AND WE ASSUME NO LIABILITY RESULTING FROM ITS USE. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION FOR THEIR PARTICULAR PURPOSES.

**SUBSTANCE IDENTIFICATION**

CAS-NUMBER 9000-01-5

**SUBSTANCE:** **ACACIA**

**TRADE NAMES/SYNONYMS:** ACACIA DEGLUTATA GUM; ACACIA GUM; ARABIC GUM; ACACIA SENEGAL; ACACIA SYRUP; AUSTRALIAN GUM; GUM OVALIS; GUM SENEGAL; INDIAN GUM; NCF-50748; STARSOL NO. 1, WATTLE GUM; U-85, ACCO0045

**CHEMICAL FAMILY:** GLYCOSIDE

**CERCLA RATINGS (SCALE 0-4):** HEALTH=2; FIRE=1; REACTIVITY=0; PERSISTENCE=1

**NPA RATINGS (SCALE 0-4):** HEALTH=2; FIRE=1; REACTIVITY=0; PERSISTENCE=1

**COMPONENTS AND CONTAMINANTS:**

**COMPONENT:** ACACIA

**PERCENT:** 85-87

**COMPONENT:** WATER

**PERCENT:** 13-15

**EXPOSURE LIMITS:**

NO OCCUPATIONAL EXPOSURE LIMITS ESTABLISHED BY OSHA, ACGIH, OR NIOSH.

**PHYSICAL DATA**

DESCRIPTION: PRACTICALLY ODOLESS, WHITE TO PALE YELLOW POWDER, THICK FLAKES, GRANULES OR ANGULAR FRAGMENTS WHICH PRODUCE A MUCILAGINOUS SENSATION ON THE TONGUE.

MELTING POINT: NOT AVAILABLE

SPECIFIC GRAVITY: 1.4-1.5

PH: ACIDIC IN SOLUTION

SOLUBILITY: WATER SOLUBLE

SOLVENT SOLUBILITY: GLYCEROL, PROPYLENE GLYCOL, INESOLUBLE IN ALCOHOL

**FIRE AND EXPLOSION DATA**

FIRE AND EXPLOSION HAZARD:

SLIGHT FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME.

DUST-IGNITION MIXTURES MAY IGNITE OR EXPLODE.

**FIREFIGHTING MEDIA:**

DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR REGULAR FOAM (1990 EMERGENCY RESPONSE GUIDEBK, DOT P 5800.5).

FOR LARGER FIRES, USE WATER SPRAY, FOG OR REGULAR FOAM (1990 EMERGENCY RESPONSE GUIDEBK, DOT P 5800.5). FOR LARGER FIRES, USE WATER SPRAY, FOG OR REGULAR FOAM (1990 EMERGENCY RESPONSE GUIDEBK, DOT P 5800.5).

**FIREFIGHTING:**

MOVE CONTAINER FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK. DO NOT SCATTER SPILLED MATERIAL WITH HIGH-PRESSURE WATER STREAMS. USE FIRE-CONTROL WATER FOR LATER DISPOSAL (1990 EMERGENCY RESPONSE GUIDEBK, DOT P 5800.5, GUIDE PAGE 31).

**USE AGENTS SUITABLE FOR TYPE OF SURROUNDING FIRE. AVOID BREATHING HAZARDOUS VAPORS, KEEP UPWIND.**

**TOXICITY**

**ACACIA**

**IRITATION DATA:** 26 MG/5 HOURS EYE-RABBIT SEVERE.

**TOXICITY DATA:**

8 GM/KG ORAL-RABBIT LD50; MUTAGENIC DATA (RTCS); REPRODUCTIVE EFFECTS DATA (RTCS).

CARCINOGENIC STATUS: NONE

LOCAL EFFECTS: IRRITANT, EYE

ACUTE TOXICITY LEVEL: SLIGHTLY TOXIC BY INGESTION.

TARGET EFFECTS: SENSITIZER, RESPIRATORY, DERMAL AND ORAL.

**HEALTH EFFECTS AND FIRST AID**

**INHALATION:**

ACACIA.

**SENSITIZER:**

ACUTE EXPOSURE - MAY CAUSE IRRITATION. SENSITIZATION REACTIONS MAY OCCUR WITH WATERY EYES AND NOSE, COUGH, WHEEZING, RHIINTIS, ASTHMA, HIVES, ECZEMA, AND ANGIOEDEMA.

CHRONIC EXPOSURE: REPEATED OR PROLONGED EXPOSURE MAY LEAD TO PULMONARY SENSITIZATION. OCCUPATIONAL EXPOSURE HAS CAUSED CHRONIC INFLAMMATION OF THE PULMONARY CONGESTION. WELL DEFINED RADIOLOGICAL FINDINGS WERE ALSO REPORTED.

FIRST AID: REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. KEEP PERSON WARM AND AT REST. TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION IMMEDIATELY.

**SKIN CONTACT:**

ACACIA.

**SENSITIZER:**

ACUTE EXPOSURE - MAY CAUSE IRRITATION AND CONTACT DERMATITIS. SENSITIZATION REACTIONS MAY OCCUR WITH WATERY EYES AND NOSE, COUGH, WHEEZING, RHIINTIS, ASTHMA, HIVES, URTICARIA OR SKIN LESIONS IN PREVIOUSLY EXPOSED PERSONS.

**CHRONIC EXPOSURE:** REPEATED OR PROLONGED CONTACT MAY CAUSE DERMATITIS AND SENSITIZATION.

FIRST AID: REMOVE CONTAMINATED CLOTHING AND SHOES IMMEDIATELY. WASH AFFECTED AREA WITH MILD DETERGENT AND LARGE AMOUNTS OF WATER UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

**EYE CONTACT:**

ACACIA.

**IRRITANT:**

ACUTE EXPOSURE - MAY CAUSE IRRITATION. ANIMAL STUDIES INDICATE SEVERE IRRITATION OCCURRING.

**CHRONIC EXPOSURE:** REPEATED OR PROLONGED EXPOSURE MAY CAUSE CONJUNCTIVITIS.

FIRST AID: WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER OR NORMAL SALINE. OCCURS LIFTING UPPER AND LOWER LIDS, UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

**INGESTION:**

ACACIA.

**SENSITIZER:**

ACUTE EXPOSURE - MAY CAUSE NASEA OR VOMITING, AND SENSITIZATION REACTIONS INCLUDING HIVES, ECZEMA AND ANGIOEDEMA IN PREVIOUSLY EXPOSED PERSONS.

**CHRONIC EXPOSURE:** REPEATED OR PROLONGED EXPOSURE MAY RESULT IN SENSITIZATION.

**REPRODUCTIVE EFFECTS HAVE BEEN REPORTED IN ANIMALS.**

FIRST AID: TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION IMMEDIATELY. IF VOMITING OCCURS, KEEP HEAD LOWER THAN HIPS TO PREVENT ASPIRATION.

**ANTIDOTE:**

NO SPECIFIC ANTIDOTE. TREAT SYMPTOMATICALLY AND SUPPORTIVELY.

**REACTIVITY**

STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

**INCOMPATIBILITIES:**

ACACIA.

OXIDIZERS (STRONG): FIRE AND EXPLOSION HAZARD.

**DECOMPOSITION:**

THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE TOXIC OXIDES OF CARBON.

**POLYMERIZATION:**

HAZARDOUS POLYMERIZATION HAS NOT BEEN REPORTED TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURE.

**STORAGE AND DISPOSAL**

OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS WHEN STORING OR DISPOSING OF THIS SUBSTANCE.

**STORAGE**
STORE AWAY FROM INCOMPATIBLE SUBSTANCES.

**CONDITIONS TO AVOID**

MAY BURN BUT DOES NOT IGNITE READILY. AVOID CONTACT WITH STRONG OXIDIZERS, EXCESSIVE HEAT, SPARKS, OR OPEN FLAME.

**SPILL AND LEAK PROCEDURES**

OCCUPATIONAL SPILL: SWEEP UP AND PLACE IN SUITABLE CLEAN, DRY CONTAINERS FOR RECLAMATION OR LATER DISPOSAL. DO NOT FLUSH SPILLED MATERIAL INTO SEWER. KEEP UNNECESSARY PEOPLE AWAY.

**PROTECTIVE EQUIPMENT**

VENTILATION: PROVIDE LOCAL EXHAUST VENTILATION. VENTILATION EQUIPMENT MUST BE EXPLOSION PROOF.

RESPIRATOR: THE FOLLOWING RESPIRATORS ARE RECOMMENDED BASED ON INFORMATION FOUND IN THE PHYSICAL DATA, TOXIcity AND HEALTH EFFECTS SECTIONS. THEY ARE RANKED IN ORDER FROM MINIMUM TO MAXIMUM RESPIRATORY PROTECTION. THE SPECIFIC RESPIRATOR SELECTED MUST BE BASED ON CONTAMINATION LEVELS FOUND IN THE WORK AREA. MUST BE BASED ON THE SPECIFIC OPERATION. MUST NOT EXCEED THE WORKING LIMITS OF THE RESPIRATOR AND MUST BE JOINTLY APPROVED BY THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH AND THE MINE SAFETY AND HEALTH ADMINISTRATION (NIOSH-MSHA).

ANY TYPE 'C' SUPPLIED-AIR RESPIRATOR WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE OR WITH A FULL FACEPIECE, HELMET OR HOOD OPERATED IN CONTINUOUS-FLOW MODE.

ANY SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE.

FOR FIREFIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS:

ANY SELF-CONTAINED BREATHING APPARATUS THAT HAS A FULL FACEPIECE AND IS OPERATED IN A PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE.

ANY SUPPLIED-AIR RESPIRATOR THAT HAS A FULL FACEPIECE AND IS OPERATED IN A PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE IN COMBINATION WITH AN AUXILIARY SELF-CONTAINED BREATHING APPARATUS OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE.

CLOTHING:

EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE (IMMERSION) CLOTHING AND EQUIPMENT TO PREVENT REPEATED OR PROLONGED SKIN CONTACT WITH THIS SUBSTANCE.

GLOVES:

EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE GLOVES TO PREVENT CONTACT WITH THIS SUBSTANCE.

EYE PROTECTION:

EMPLOYEE MUST WEAR SPLASH-PROOF OR DUST-RESISTANT SAFETY GOOGLES TO PREVENT EYE CONTACT WITH THIS SUBSTANCE.

EMERGENCY EYE WASH: WHERE THERE IS ANY POSSIBILITY THAT AN EMPLOYEE'S EYES MAY BE EXPOSED TO THIS SUBSTANCE, THE EMPLOYER SHOULD PROVIDE AN EYE WASH FOUNTAIN WITHIN THE IMMEDIATE WORK AREA FOR EMERGENCY USE.

AUTHORIZED: FISHER SCIENTIFIC, INC.
CREATION DATE: 01/31/85
REVISION DATE: 03/24/93

-ADDITIONAL INFORMATION-

THIS INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. HOWEVER, WE MAKE NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO SUCH INFORMATION, AND WE ASSUME NO LIABILITY RESULTING FROM ITS USE. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION FOR THEIR PARTICULAR PURPOSES.