

M A T E R I A L S A F E T Y D A T A S H E E T

METHANOL

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PRODUCT NAME: METHANOL NFPA CODES: H F R
MSDS CODE: 1430N 1 3 0
CHEMICAL EMERGENCY (SPILL, LEAK, FIRE) CHEMTREC (24 HOUR): 1-800-424-9300
DOT SHIPPING NAME AND LABELING: GROUND TRANSPORTATION: QUART OR SMALLER, CONSUMER
COMMODITY - ORM-D; GALLON OR LARGER, METHANOL/3/UN1230/PGII - FLAMMABLE.

SECTION I - MANUFACTURER IDENTIFICATION
EFFECTIVE: 04/12/2005

SCL DIVISION
MANUFACTURER'S NAME: SAVOGRAN
ADDRESS : 259 LENOX STREET
PO BOX 130
NORWOOD, MA 02062-0130
PHONE : 781-762-5400 NAME OF PREPARER : MARK A. MONIQUE

SECTION II - HAZARDOUS INGREDIENTS UNDER OSHA HAZARD COMMUNICATION STD

Table with 3 columns: INGREDIENTS, CAS NUMBER, WEIGHT PERCENT. Row 1: * METHANOL, 67-56-1, 95% - 100%. Includes ACGIH (SKIN)/OSHA 200 ppm TWA and ACGIH 250 ppm STEL-SKIN.

THIS PRODUCT CONTAINS CHEMICALS (MARKED *) WHICH ARE SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

INITIAL BOILING POINT: 147F SPECIFIC GRAVITY: 0.7-0.8
VAPOR DENSITY: HEAVIER THAN AIR VAPOR PRESSURE (CALCULATED): 97mmHg20C
EVAPORATION RATE: LESS THAN ETHER MATERIAL V.O.C. (% BY WT.): 100
PERCENT VOLATILE: 100% SOLUBILITY IN WATER: TOTAL
PH (1% IN H2O): N/A
APPEARANCE AND ODOR: CLEAR, ALCOHOL LIKE

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 54F METHOD USED: T.C.C.
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 6.0 UPPER: 36.0

EXTINGUISHING MEDIA: WATER FOG, REGULAR FOAM, CARBON DIOXIDE OR DRY CHEMICAL.

SPECIAL FIREFIGHTING PROCEDURES:
WEAR SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE PIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE. STRAIGHT WATER STREAM WILL SPREAD FIRE.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE SURFACE, COLLECT IN LOW AREAS AND MAY BE MOVED BY VENTILATION AND MAY IGNITE EXPLOSIVELY AT LOCATIONS FAR REMOVED FROM HANDLING LOCATION. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAMES. USE ONLY IN EXPLOSION PROOF AREAS OR TURN OFF ELECTRICITY. DO NOT SMOKE OR

PERMIT OTHERS TO DO SO. DO NOT OPERATE ELECTRIC SWITCHES OR MOTORS. PREVENT METAL OBJECTS FROM STRIKING OTHER OBJECTS WHICH MAY CAUSE SPARKS. TURN OFF PILOT LIGHTS, ELECTRIC IGNITERS AND ALL OTHER FLAMES. VAPORS CONTACTING FLAME, SPARKS OR HOT SURFACES MAY IGNITE EXPLOSIVELY. DO NOT USE WELDING OR CUTTING TORCHES ON OR NEAR CONTAINERS (EMPTY OR FULL) BECAUSE PRODUCT, INCLUDING RESIDUE, CAN IGNITE EXPLOSIVELY.

===== SECTION V - REACTIVITY DATA =====

STABILITY: STABLE
CONDITIONS TO AVOID:
SEE SECTION IV - UNUSUAL FIRE AND EXPLOSION HAZARDS

INCOMPATIBILITY (MATERIALS TO AVOID):
STRONG ACIDS (E.G. HCL), STRONG OXIDIZING AGENTS (E.G. PERMANGANATES).

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

===== SECTION VI - HEALTH HAZARD DATA =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:
INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, HEADACHE, NAUSEA, UNCONSCIOUSNESS AND ASPHYXIATION.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:
CAN CAUSE EYE IRRITATION, REDNESS AND TEARING. PROLONGED OR FREQUENTLY REPEATED SKIN CONTACT CAN CAUSE IRRITATION, DEFATTING AND DERMATITIS.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:
SOME INGREDIENTS IN THIS PRODUCT MAY BE ABSORBED THROUGH INTACT SKIN AND PRODUCE TOXIC EFFECTS SIMILAR TO SWALLOWING.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:
INGESTION CAN CAUSE SEVERE INTERNAL IRRITATION. CAN BE FATAL IF SWALLOWED. SYSTEMIC POISON AFFECTING THE CENTRAL NERVOUS SYSTEM AND KIDNEY FUNCTION AS WELL AS OTHER ORGANS.

HEALTH HAZARDS (CHRONIC):
INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE PRODUCT MAY BE HARMFUL OR FATAL. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN, NERVOUS SYSTEM, LIVER AND KIDNEY DAMAGE. IT IS BELIEVED THAT SAVOGRAN PRODUCTS ARE SAFE FOR THE AVERAGE HEALTHY INDIVIDUAL TO USE WHEN USED AS RECOMMENDED. PERSONS THOUGHT TO HAVE HEART OR RESPIRATORY PROBLEMS SHOULD SEEK MEDICAL ADVICE BEFORE USING SOLVENTS OF ANY KIND. IF SIGNS OF ALLERGY DEVELOP (BREATHING DIFFICULTY, EYE ITCHING, PROLONGED ITCHING OR REDNESS OF SKIN, HEADACHES, DIZZINESS, ETC.) DISCONTINUE USE OF PRODUCT IMMEDIATELY AND CONSULT A PHYSICIAN.

CARCINOGENICITY: NTP: NO IARC MONOGRAPHS: NO OSHA REGULATED: NO

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PERSONS THOUGHT TO HAVE HEART OR RESPIRATORY PROBLEMS SHOULD SEEK MEDICAL ADVICE BEFORE USING SOLVENTS OF ANY KIND. IF SIGNS OF ALLERGY DEVELOP (BREATHING DIFFICULTY, EYE ITCHING, PROLONGED ITCHING OR REDNESS OF SKIN, HEADACHES, DIZZINESS, ETC.) DISCONTINUE USE OF PRODUCT IMMEDIATELY AND CONSULT A PHYSICIAN. CAUTION: DRINKING ALCOHOL SHORTLY BEFORE, DURING OR AFTER EXPOSURE TO SOME SOLVENTS MAY CAUSE UNDESIRABLE EFFECTS.

EMERGENCY AND FIRST AID PROCEDURES:

****SKIN CONTACT****: WASH THOROUGHLY WITH SOAP AND WATER. THOROUGHLY LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE. ****EYE CONTACT****: FLOOD WITH PLENTY OF WATER WITH EYE LIDS HELD OPEN FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION PROMPTLY. ****INHALATION****: IF ILLNESS OCCURS, REMOVE PATIENT TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF BREATHING HAS STOPPED, START ARTIFICIAL RESPIRATION. CALL PHYSICIAN IMMEDIATELY. ****SWALLOWING****: DO NOT INDUCE VOMITING. IMMEDIATELY CALL PHYSICIAN, HOSPITAL EMERGENCY ROOM OR POISON CONTROL CENTER FOR WAY TO INDUCE VOMITING. GET MEDICAL ATTENTION PROMPTLY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. ASPIRATION OF MATERIAL INTO LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

REVIEW SECTION IV - UNUSUAL FIRE AND EXPLOSION HAZARDS. SMALL SPILLS: WIPE OR SCRAPE UP ANY MATERIAL. WASH AREA THOROUGHLY WITH DETERGENT AND WATER; VENTILATE ADEQUATELY WITH GOOD FRESH AIR MOVEMENT AT FLOOR LEVEL. LARGE SPILLS: WEAR PROPER PROTECTIVE EQUIPMENT. STOP SPILL AT SOURCE, DIKE AREA OF SPILL TO KEEP FROM SPREADING AND KEEP OUT OF GROUND WATER AND STREAMS. TRANSFER MATERIAL TO METAL CONTAINERS. ABSORB REMAINDER WITH SAND, CLAY, EARTH, FLOOR ABSORBENT OR OTHER MATERIAL AND SHOVEL INTO CONTAINERS. THEN WASH AREA THOROUGHLY WITH WATER AND DETERGENT. VENTILATE ADEQUATELY WITH GOOD FRESH AIR MOVEMENT AT FLOOR LEVEL. DO NOT RESTART PILOT LIGHTS OR OPERATE ELECTRICAL DEVICES OR OTHER SOURCES OF SPARKS, FLAMES OR HEAT UNTIL ALL VAPORS (ODORS) ARE GONE.

WASTE DISPOSAL METHOD:

CANNOT BE NEUTRALIZED FOR DISPOSAL INTO A SEWER. SOLVENTS MUST NOT BE DUMPED ON THE GROUND OR BE ALLOWED TO CONTAMINATE GROUND WATER, STREAMS, DRINKING WATER SOURCES OR OTHER BODIES OF WATER. DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

STORE IN COOL PLACE, OUT OF HOT SUN AND BELOW 100F. ALL CONTAINERS ARE SUBJECT TO DAMAGE IN STORAGE AND TRANSIT. DAMAGED CONTAINERS MAY START LEAKING IMMEDIATELY OR AT A LATER TIME. DO NOT STORE IN AREAS WITH WIDELY FLUCTUATING TEMPERATURES AND DO NOT STORE WHERE VAPORS MAY COME IN CONTACT WITH FLAMES, SPARKS OR HEAT.

OTHER PRECAUTIONS:

AVOID CONTACT WITH MATERIAL. DO NOT EAT, DRINK OR SMOKE WHEN HANDLING THIS MATERIAL.

===== SECTION VIII - CONTROL MEASURES =====

RESPIRATORY PROTECTION:

FOR KNOWN VAPOR CONCENTRATIONS ABOVE THE OCCUPATIONAL EXPOSURE GUIDELINES, USE A NIOSH APPROVED ORGANIC VAPOR RESPIRATOR.

VENTILATION:

THE VAPORS ARE HEAVIER THAN AIR AND DUE CARE MUST BE EXERCISED TO PREVENT THEM FROM COLLECTING IN LOW, UNVENTILATED AREAS. VAPORS MAY TRAVEL ALONG THE FLOOR (EVEN UNDER AND AROUND CLOSED DOORS). ADEQUATE VENTILATION MUST BE PROVIDED WITH GOOD FRESH AIR MOVEMENT AT FLOOR LEVEL BY NORMAL CROSS VENTILATION OR PREFERABLY EXPLOSION PROOF EXHAUST FANS. LIMIT CONCENTRATION OF ANY SOLVENT IN AIR TO EXPOSURE GUIDELINES - SEE SECTION II.

PROTECTIVE GLOVES:

USE HEAVY DUTY GLOVES CONSTRUCTED OF CHEMICAL RESISTANT MATERIALS SUCH AS VITON OR NEOPRENE.

EYE PROTECTION:

CHEMICAL GOGGLES OR SAFETY GLASSES WITH SIDE SHIELD.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

NO SPECIAL PROTECTIVE CLOTHING NEEDED; HOWEVER, WEAR LONG SLEEVED SHIRTS AND LONG PANTS TO PROTECT SKIN AGAINST SPLASHES AND SPILLS. ADDITIONAL CHEMICAL-RESISTANT PROTECTIVE GEAR MAY BE REQUIRED IF SPLASHING OR SPRAYING CONDITIONS EXIST. THIS MAY INCLUDE AN APRON, BOOTS AND ADDITIONAL FACIAL PROTECTION. IF PRODUCT COMES IN CONTACT WITH CLOTHING, IMMEDIATELY REMOVE SOAKED CLOTHING AND WASH SKIN THOROUGHLY.

===== SECTION IX - DISCLAIMER =====

JUDGEMENT OF POTENTIAL HAZARDS OF THIS PRODUCT IS BASED ON INFORMATION AVAILABLE ABOUT INDIVIDUAL COMPONENTS LISTED UNDER SECTION II - INGREDIENTS. DIRECT TESTING OF MIXTURE HAS NOT BEEN DONE. INFORMATION GIVEN HEREIN IS BELIEVED TO BE ACCURATE AND IS GIVEN IN GOOD FAITH; HOWEVER, NO WARRANTY EITHER EXPRESSED OR IMPLIED IS MADE. IT IS STRONGLY SUGGESTED THAT USERS CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT AND APPLICABLE TO THEIR SITUATIONS.