

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

SI No.5

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PRODUCT NAME: SI No.5

NFPA CODES: H F R

MSDS CODE: 130N-A

2 1 0

CHEMICAL EMERGENCY (SPILL, LEAK, FIRE) CHEMTREC (24 HOUR): 1-800-424-9300

DOT SHIPPING NAME AND LABELING: GROUND TRANSPORTATION: DICHLOROMETHANE

SOLUTION/6.1/UN1593/PGIII - KEEP AWAY FROM FOOD.

SECTION I - MANUFACTURER IDENTIFICATION

EFFECTIVE: 08/17/2001

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

INGREDIENTS	CAS NUMBER	WEIGHT PERCENT
* DICHLOROMETHANE OSHA 25 ppm TWA/125 ppm STEL ACGIH 50 ppm TWA, A3	75-09-2	85% - 90%
* METHANOL ACGIH (SKIN)/OSHA 200 ppm TWA ACGIH 250 ppm STEL-SKIN	67-56-1	5% - 10%
* TOLUENE ACGIH 50 ppm TWA - SKIN, A4 OSHA 200 ppm TWA/300 ppm CEILING	108-88-3	0% - 5%
PARAFFIN WAX ACGIH 2 mg/m3 TWA (fume)	8002-74-2	0% - 5%

CONSUMER PRODUCT SAFETY COMMISSION HAS ISSUED A STATEMENT OF POLICY FOR HOUSEHOLD PRODUCTS (INCLUDING PAINT REMOVERS) CONTAINING METHYLENE CHLORIDE. THE POLICY REQUIRES THAT LABELS FOR PRODUCTS CONTAINING METHYLENE CHLORIDE INCLUDE A STATEMENT OF PRINCIPAL HAZARD AND INDICATE THAT THE RISK TO THE USER IS RELATED TO THE LEVEL AND DURATION OF EXPOSURE. CALIFORNIA PROPOSITION 65: THE FOLLOWING STATEMENT IS MADE IN ORDER TO COMPLY WITH THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. 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: 104F

SPECIFIC GRAVITY: 1.20

VAPOR DENSITY: HEAVIER THAN AIR

VAPOR PRESSURE (CALCULATED): 308mmHg20C

EVAPORATION RATE: LESS THAN ETHER

MATERIAL V.O.C. (% BY WT.): 9.

PERCENT VOLATILE: ABOVE 90%

SOLUBILITY IN WATER: APPRECIABLE

PH (1% IN H2O): 6-7

APPEARANCE AND ODOR: THICK BLUE LIQUID, AROMATIC ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: NONE

METHOD USED: SETAFLASH CLOSED CUP

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: NO DATA

UPPER: NO DATA

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 AT LOCATIONS FAR REMOVED FROM HANDLING LOCATION. DO NOT SMOKE OR PERMIT OTHERS TO DO SO. THIS PRODUCT CONTAINS METHYLENE CHLORIDE. IN CONTACT WITH OPEN FLAMES, WELDING ARCS OR OTHER HIGH TEMPERATURE SOURCES, THIS PRODUCT WILL DECOMPOSE AND FORM PRODUCTS WHICH MAY DESTROY METALS SUCH AS OVERHEAD GAS FIRE HEATERS AND MAY PRODUCE GASES WHICH ARE POISONOUS.

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

STABILITY: STABLE

CONDITIONS TO AVOID:

SEE SECTION IV - UNUSUAL FIRE AND EXPLOSION HAZARDS

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZING AGENTS (E.G. NITRIC ACID, PERMANGANATES, ETC.) STRONG ALKALIES (E.G. NAOH AMMONIA, ETC.), STONG ACIDS (E.G. HCL, SULFURIC, ETC.) MAY REACT WITH ALUMINUM.

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:

SKIN: SHORT CONTACT MAY CAUSE SLIGHT REDDENING OR NO IRRITATION. PROLONGED OR FREQUENTLY REPEATED CONTACT CAN CAUSE IRRITATION DEFATTING, DERMATITIS AND MAY RESULT IN ABSORPTION OF HARMFUL AMOUNTS. EYE CONTACT CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION AND MAY CAUSE TRANSIENT INJURY TO CORNEA.

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:

ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL. INGESTION CAN CAUSE BLINDNESS, NAUSEA, VOMITING, DIARRHEA, GASTROINTESTINAL IRRITATION AND DEATH.

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. FOR HAZARD COMMUNICATION PURPOSES UNDER OSHA STANDARD 29 CFR PART 1910.1200, METHYLENE CHLORIDE IS LISTED AS A POTENTIAL CARCINOGEN BY IARC. METHYLENE CHLORIDE HAS BEEN SHOWN TO INCREASE THE RATE OF SPONTANEOUSLY OCCURRING MALIGNANT TUMORS IN ONE STRAIN OF LABORATORY MOUSE AND BENIGN TUMORS IN LABORATORY RATS. OTHER ANIMAL STUDIES AND HUMAN EPIDEMIOLOGY STUDIES HAVE NOT SHOWN A TUMORIGENIC RESPONSE WHICH COULD BE RELATED TO METHYLENE CHLORIDE. EXCESSIVE EXPOSURE MAY CAUSE CARBOXYHEMOGLOBINEMIA AND IMPAIR BLOOD'S ABILITY TO TRANSPORT OXYGEN. IT IS BELIEVED THAT SAVOGRAN PRODUCTS ARE SAFE FOR THE AVERAGE HEALTHY INDIVIDUAL TO USE WHEN USED AS RECOMMENDED.

CARCINOGENICITY: NTP: YES IARC MONOGRAPHS: YES 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****: IMMEDIATELY GIVE 1 OR 2 GLASSES OF WATER AND 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:

REMOVERS 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. SOLIDS COLLECTED FROM STRIPPING SHOULD BE SCREENED OUT. RECOVERED REMOVER, IF NOT CONTAMINATED WITH OTHER SOLVENTS OR WATER, MAY BE RECYCLED IN THE SYSTEM. DISPOSE OF CONTAMINATED REMOVER AS SPENT SOLVENT TO A LICENSED RECLAIMER. COMPLY 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 90F. 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. DO NOT STORE IN BELOW GROUND AREAS THAT CANNOT BE ADEQUATELY VENTILATED AT FLOOR LEVEL. DO NOT USE CUTTING OR WELDING TORCHES NEAR FULL OR EMPTY CONTAINERS. CLOSED CONTAINERS MAY EXPLODE IF EXPOSED TO EXTREME HEAT. NEVER USE INTERNAL GAS OR AIR PRESSURE TO REMOVE CONTENTS FROM A CONTAINER. EMPTIED CONTAINERS MAY RETAIN PRODUCT RESIDUES (E.G. VAPOR AND LIQUID OR SOLIDS); THEREFORE, ALL PRECAUTIONS GIVEN IN THIS SHEET MUST BE OBSERVED UNTIL A CONTAINER IS THOROUGHLY CLEANED OR DESTROYED. ALL CONTAINERS MUST BE COMPLETELY DRAINED, (LESS THAN ONE INCH OF MATERIAL IN THE BOTTOM OF 55 GALLON CONTAINER) BEFORE DISPOSAL. IF POSSIBLE EMPTIED CONTAINER OF 55 GALLONS OR MORE SHOULD BE GIVEN TO RECONDITIONER FOR CLEANING.

OTHER PRECAUTIONS:

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

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

RESPIRATORY PROTECTION:

AT VAPOR CONCENTRATION BELOW EXPOSURE GUIDELINES - SEE SECTION II - NONE NEEDED. AIR-PURIFYING RESPIRATORS MAY NOT BE EFFECTIVE AND THEY ARE NOT RECOMMENDED FOR USE WITH THIS PRODUCT. IN POORLY VENTILATED AREAS AND IN EMERGENCIES, AN APPROVED SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACE PIECE, OPERATED IN PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE IS ADVISED. (SEE YOUR SAFETY EQUIPMENT SUPPLIER)

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:

NEOPRENE, BUTYL OR SAFETY 4H LAMINATE GLOVE.

EYE PROTECTION:

CHEMICAL GOGGLES OR SAFETY GLASSES WITH SIDE SHIELD. EYE WASH STATIONS WITH SAFETY SHOWERS SHOULD BE READILY AVAILABLE. PLASTIC GLASSES MAY BE DISSOLVED BY PAINT REMOVERS AND OTHER SOLVENTS.

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.

===== 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. FLASH POINT HAS BEEN TESTED. 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.