

MATERIAL SAFETY DATA SHEET

MANUFACTURER OR DISTRIBUTOR: **M. Grumbacher, Inc.**
Three Englehard Dr.

Cranbury NJ 08512

INFORMATION TELEPHONE NUMBER: **609-655-8282**

EMERGENCY TELEPHONE NUMBER: **800-346-3278**

----- SECTION I - PRODUCT IDENTIFICATION -----

PRODUCT NAME: **GRUMTINE** PRODUCT NO. **538**

PRODUCT SIZES: **74, 236, 473, 946 ML**

PRODUCT CLASS: **SOLVENT**

----- SECTION II - HAZARDOUS INGREDIENTS -----

INGREDIENT	CAS#	PEL/TLV (MG/M3)	MAX %WEIGHT	NTP	IARC
D-LIMONENE	5989-27-5	N/A	100.0000	N	N

----- SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS -----

BOILING POINT: 176°C MELTING POINT: N/A
VAPOR PRESSURE: 1.2 @ 20°C
SPECIFIC VAPOR DENSITY (AIR=1): 4.7 SPECIFIC GRAVITY: 0.838 - 0.843
SOLUBILITY IN WATER: INSOLUBLE REACTIVITY IN WATER: NON-REACTIVE
APPEARANCE AND ODOR: CLEAR PALE STRAW LIQUID WITH CITRUS ODOR.

----- SECTION IV - FIRE AND EXPLOSION INFORMATION -----

FLASH POINT (METHOD): 115°F TCC AUTOIGNITION TEMPERATURE: N/A
EXPLOSION LIMITS IN AIR (% BY VOLUME): NOT EXPLOSIVE
EXTINGUISHING MEDIA: NO SPECIAL MEDIA REQUIRED
FIRE FIGHTING PROCEDURES: NO SPECIAL FIRE FIGHTING PROCEDURES REQUIRED
UNUSUAL FIRE & EXPLOSION HAZARDS: **COMBUSTIBLE.**

----- SECTION V - PHYSICAL HAZARDS/REACTIVITY -----

HAZARDOUS POLYMERIZATION PRODUCTS: NONE
STABILITY: STABLE CONDITIONS TO AVOID: NONE
IMCOMPATIBILITY (MATERIALS TO AVOID): NONE
HAZARDOUS DECOMPOSITION PRODUCTS: NONE

COMPANY: M. Grumbacher, Inc. PRODUCT: 538
BRAND NAME: GRUMTINE

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

PERMISSIBLE EXPOSURE LEVEL: SEE SECTION II FOR COMPONENT PEL/TLVs

PRIMARY ROUTES OF ENTRY:

EFFECTS AND SYMPTOMS OF ACUTE EXPOSURE: MAY BE HARMFUL IF
SWALLOWED.

EFFECTS AND SYMPTOMS OF CHRONIC EXPOSURE: EXPOSURE MAY CAUSE DAMAGE
TO THE KIDNEYS.

CARCINOGEN LISTING: NTP: NO IARC: NO OSHA: NO
SEE SECTION II FOR COMPONENTS AFFECTED

MEDICAL CONDITIONS USUALLY AGGRAVATED BY OVER EXPOSURE TO THIS PRODUCT:
KIDNEY DISEASE.

FIRST AID MEASURES: NONE REQUIRED. NO ACUTE HEALTH EFFECTS EXPECTED.

----- SECTION VII - SPILL OR LEAK PROCEDURES -----

PRECAUTIONS TO BE TAKEN DURING STORAGE AND HANDLING: Do not store or use
near heat or flame. **KEEP OUT OF REACH OF CHILDREN.**

STEPS TO BE TAKEN IN CASE A MATERIAL IS SPILLED: NO SPECIAL SPILL
PROCEDURES REQUIRED.

WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND
LOCAL REGULATIONS.

----- SECTION VIII - PROTECTIVE EQUIPMENT/CONTROL MEASURES -----

RESPIRATORY PROTECTION AND SPECIAL VENTILATION REQUIREMENTS: Avoid
breathing vapors by assuring adequate cross ventilation.

OTHER PROTECTIVE EQUIPMENT (GLOVES, GOGGLES, ETC): NONE REQUIRED

WORK/HYGIENE PRACTICES: Avoid prolonged contact with skin. Wash hands
immediately after use. When using do not eat, drink or smoke.

Form Completed by: Woodhall Stopford, MD, MSPH

Last Updated: 03/31/92

