

===== SECTION I - IDENTIFICATION OF MATERIAL AND SUPPLIER =====

PRODUCT NAME: T-198 REFLOW THINNER
PRODUCT CODE: T-198

MANUFACTURER'S NAME: R. J. McGLENNON CO. INC.
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===== SECTION II - HAZARDOUS IDENTIFICATION =====

OSHA REGULATORY STATUS

THIS CHEMICAL IS CONSIDERED HAZARDOUS BY THE 2012 OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

ACUTE TOXICITY - ORAL	CATEGORY 4 H302
ACUTE TOXICITY - DERMAL	CATEGORY 4 H312
ACUTE TOXICITY - INHALATION (VAPORS)	CATEGORY 4 H332
SKIN CORROSION/IRRITATION	CATEGORY 2 H315
SERIOUS EYE DAMAGE/EYE IRRITATION	CATEGORY 2B H320
CARCINOGENICITY	CATEGORY 2 H351
REPRODUCTIVE TOXICITY	CATEGORY 2 H361
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)	CATEGORY 2 H373
CHRONIC AQUATIC TOXICITY	CATEGORY 3 H412
FLAMMABLE LIQUIDS	CATEGORY 2 H225
FLAMMABLE LIQUIDS	CATEGORY 3 H226
SLOT, SINGLE EXPOSURE	CATEGORY 3 H335
EYE IRRITATION	CATEGORY 2 H319

LABEL ELEMENTS

- HEALTH HAZARD
- FLAME
- EXCLAMATION MARK

EMERGENCY OVERVIEW STATEMENTS

HAZARD STATEMENTS

- HARMFUL IF SWALLOWED
- HARMFUL IF INHALED
- CAUSES SKIN IRRITATION
- CAUSES EYE IRRITATION
- SUSPECTED OF CAUSING CANCER
- SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD
- MAY CAUSE DAMAGE TO THE CENTRAL NERVOUS SYSTEM THROUGH PROLONGED OR REPEATED EXPOSURE
- HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS
- FLAMMABLE LIQUID AND VAPOR

PRECAUTIONARY STATEMENTS - PREVENTION

- OBTAIN SPECIAL INSTRUCTIONS BEFORE USE
- DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD
- USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED
- USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA

DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD
KEEP AWAY FROM FOOD AND DRINK
P264 WASH HANDS THOROUGHLY AFTER HANDLING
P270 DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT
P261 AVOID BREATHING DUST/FUME/GAS MIST/VAPORS/SPRAY
P271 USE ONLY OUTDOORS OR IN WELL VENTILATED AREA

PRECAUTIONARY STATEMENTS - RESPONSE

P301 P312 IF SWALLOWED: CALL A POISON CONTROL CENTER OR DOCTOR
P330 RINSE MOUTH
P331 DO NOT INDUCE VOMITING
P304 P340 P312 IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING. CALL POISON CONTROL CENTER OR MEDICAL DOCTOR IF INDIVIDUAL CONTINUES TO FEEL UNWELL
P302 P352 P312 MAY BE HARMFUL IF ONCTACT WITH SKIN: WASH AFFECTED AREAS WITH LARGE AMOUNT OF FRESH WATER. CALL POISON CONTROL CENTER OR DOCTOR IF INDIVIDUAL CONTINUEW TO FEEL UNWELL.

PRECAUTIONARY STATEMENTS - STORAGE

STORE LOCKED UP.

PRECAUTIONARY STATEMENTS - DISPOSAL

DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL AND NATIONAL REGULATIONS.

HAZARDS NOT OTHERWISE CLASSIFIED OTHER INFORMATION

NOT APPLICABLE

===== **SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS**=====

REPORTABLE COMPONENTS	CAS NUMBER	WEIGHT PERCENT
METHYL AMYL KETONE	110-43-0	33.5
* # GLYCOL ETHER EB	111-76-2	26.45
NORMAL BUTYL ACETATE	123-86-4	15.5
ISOBUTYL ISOBUTYRATE	97-85-8	14.0
METHYL ETHYL KETONE	78-93-3	10.5

* Indicates this product contains EPCRA section 313 chemical(s) subject to the reporting requirements of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).
This information must be included in all MSDS's that are copied and distributed for this material. *# Note for Glycol Ether EB - this solvent is no longer on the 40CFR63.112 HAPS list but it is EPCRA section 313 reportable

WARNING: This product contains flammable solvent(s).

===== **SECTION IV - FIRST-AID MEASURES**=====

IF ON SKIN: FLUSH EXPOSED AREA WITH LARGE AMOUNTS OF WATER. IF ANY IRRITATION DEVELOPS SEEK MEDICAL ATTENTION. REMOVE CONTAMINATED CLOTHING. LAUNDRER CLOTHING BEFORE REUSE.
IF IN EYES: FLUSH WITH WATER WHILE HOLDING EYELIDS OPEN. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

NORMAL BUTYL ACETATE	123-86-4
OSHA PEL EXPOSURE LIMIT: 150 ppm	
ACGIH TLV EXPOSURE LIMIT: 150 ppm	
OTHER EXPOSURE LIMIT: N/A	
ISOBUTYL ISOBUTYRATE	97-85-8
OSHA PEL EXPOSURE LIMIT: 100 ppm	
ACGIH TLV EXPOSURE LIMIT: 100 ppm	
OTHER EXPOSURE LIMIT: N/A	
METHYL ETHYL KETONE	78-93-3
OSHA PEL EXPOSURE LIMIT: 200 ppm - TWA	
ACGIH TLV EXPOSURE LIMIT: 200 ppm - TWA	
OTHER EXPOSURE LIMIT: N/A	

RESPIRATORY PROTECTION

IF WORKPLACE EXPOSURE LIMITS(S) OF PRODUCT OR ANY COMPONENT IS EXCEEDED (SEE SECTION II), A NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS (CHEMICAL TYPE WITH ORGANIC VAPOR CARTRIDGE) - CONSULT YOUR INDUSTRIAL HYGIENIST.

VENTILATION

PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN ALL SECTION III COMPONENTS BELOW THEIR EXPOSURE LIMITS.

PROTECTIVE GLOVES

WEAR RESISTANT GLOVES (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER).

EYE PROTECTION

CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

EYE BATH AND SAFETY SHOWER. TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING, GLOVES, AND BOOTS.

WORK/HYGIENIC PRACTICES

WASH HANDS PRIOR TO EATING. DO NOT SMOKE NEAR THIS PRODUCT.

===== SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES =====

BOILING RANGE: 175 Deg F - 336 Deg F SPECIFIC GRAVITY (H2O=1): .85
VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE: SLOWER THAN ETHER
SOLUBILITY IN WATER: NEGLIGIBLE
APPEARANCE AND ODOR: CLEAR LIQUID WITH ORGANIC SOLVENTS ODOR.

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE	
		MM HG @	TEMP
METHYL AMYL KETONE	110-43-0	2.14	68 Deg F
* # GLYCOL ETHER EB	111-76-2	0.40	20 Deg C
NORMAL BUTYL ACETATE	123-86-4	10.0	68 Deg F
ISOBUTYL ISOBUTYRATE	97-85-8	32	68 Deg F
METHYL ETHYL KETONE	78-93-3	78	68 Deg F

===== SECTION X - STABILITY AND REACTIVITY =====

STABILITY

STABLE UNDER NORMAL CONDITIONS

CONDITIONS TO AVOID

ALL SOURCES OF IGNITION: HEAT, SPARKS, STATIC ELECTRICITY, OPEN FLAMES

INCOMPATIBILITY (MATERIALS TO AVOID)

AVOID CONTACT WITH: STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

CARBON DIOXIDE, CARBON MONOXIDE, HYDROCARBON COMPOUNDS

HAZARDOUS POLYMERIZATION

WILL NOT OCCUR

===== SECTION XI - TOXICOLOGICAL INFORMATION =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

INHALATION: EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION. OTHER INHALATION SYMPTONS CAN INCLUDE NAUSEA, DIZZINESS, HEADACHE.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

SKIN: EXPOSURE CAUSES SKIN IRRITATION. PROLONGED OR REPEATED EXPOSURE MAY DRY SKIN. SYMPTOMS MAY INCLUDE REDNESS, BURNING, DRYING, AND CRACKING. EYES:PRIMARY IRRITATION. SYMPTOMS INCLUDE STINGING, TEARING, REDNESS.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

SKIN ABSORPTION IS POSSIBLE, AND MAY BE HARMFUL. BUT HARMFUL EFFECTS ARE NOT EXPECTED FROM INCIDENTAL CONTACT THROUGH NORMAL USE.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

SWALLOWING IS HARMFUL. SYMPTOMS INCLUDE GASTROINTESTINAL IRRITATION (NAUSEA, VOMITING, DIARRHEA).

HEALTH HAZARDS (ACUTE AND CHRONIC)

NONE KNOWN ON PRODUCT AS SUPPLIED

HOWEVER, OVER EXPOSURE TO SECTION II COMPONENTS CAN CAUSE DIZZINESS, NAUSEA OR HEADACHE. EXCESSIVE SKIN CONTACT CAN CAUSE DERMATITUS. EYE CONTACT CAN CAUSE IRRITATION.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

THIS MATERIAL IS NOT EXPECTED TO BE CARCINOGENIC IN HUMANS BASED ON NEGATIVE EVIDENCE OF CARCINOGENICITY IN LABORATORY ANIMALS. THIS MATERIAL IS NOT LISTED AS A CARCINOGEN BY IARC, NTP OR OSHA. SEE OTHER WARNINGS IN SECTION II. SUSPECTED OF CAUSING CANCER. SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

OVER EXPOSURE TO SECTION II COMPONENTS CAN AGGRAVATE PRE-EXISTING DISORDERS OF KIDNEYS, LIVER AND RESPIRATORY SYSTEM.

===== SECTION XII - ECOLOGICAL INFORMATION =====

ECOLOGICAL INFORMATION: NO RELEVANT DATA FOUND

MOBILITY IN SOIL: NO RELEVANT DATA FOUND

OTHER ADVERSE EFFECTS: NO RELEVANT DATA FOUND

===== SECTION XIII - DISPOSAL CONSIDERATION =====

WASTE DISPOSAL METHOD

HAZARDOUS WASTE REGULATIONS ARE NOT CONSISTENT THROUGHOUT THE COUNTRY (SOME WASTES ARE NOT HAZARDOUS WASTE UNDER FEDERAL RULES, BUT THE SAME WASTE MAY BE DEFINED AS HAZARDOUS WASTE UNDER STATE RULES).

ANY SPILLS SHOULD BE SOAKED UP WITH INERT ABSORBANT AND COLLECTED IN CONTAINERS. PAINT BOOTH FILTERS MAY BE CONSIDERED HAZARDOUS.

CONTACT YOUR LOCAL HAZARDOUS WASTE AGENCY (WITH INFORMATION FROM THIS MSDS) FOR PROPER DISPOSAL INSTRUCTIONS.

===== SECTION XIV - TRANSPORT INFORMATION =====

DOT / TDG / MEX

UN-NO

UN1263

PROPER SHIPPING NAME

PAINT RELATED MATERIAL (THINNERS)

HAZARD CLASS

3

PACKING GROUP	II
NAERG:	127
IATA / IMDG / IMO	
UN-NO	UN1263/UN1090
PROPER SHIPPING NAME	PAINT RELATED MATERIAL (THINNERS)
HAZARD CLASS	3
PACKING GROUP	PGII
PACKING INSTRUCTIONS	355;366
NAERG:	127
EMS-NO	F-E, S-E

=====**SECTION XV - REGULATORY INFORMATION**=====

SARA 313 REPORTABLE COMPONENTS CAN BE FOUND IN SECTION III COMPOSITION

SARA 313 HAZARDOUS CATEGORIZATION

ACUTE HEALTH HAZRD	YES
CHRONIC HEALTH HAZARD	YES
FIRE HAZARD	YES
SUDDEN RELEASE OF PRESSURE HAZRD	NO
REACTIVE HAZRD	NO

STATE REGULATIONS: CALIFORNIA PROPOSITION 65

WARNING: THIS MATERIAL CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 REQUIRES THAT CLEAR AND REASONABLE WARNING BE GIVEN PRIOR TO EXPOSING ANY PERSON TO THIS CHEMICAL

=====**SECTION XVI - OTHER INFORMATION**=====

THE INFORMATION IN THIS MSDS AND ENVIRONMENTAL DATA SHEET WAS OBTAINED FROM SOURCES WHICH WE BELIEVE ARE RELIABLE. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, REGARDING ITS ACCURACY OR COMPLETENESS. RECIPIENTS ARE ADVISED TO CONFIRM THE CURRENT ACCURACY IN ADVANCE OF NEEDS.