



MATERIAL SAFETY DATA SHEET

TENNECO POLYMERS, INC.
P. O. BOX 2511
HOUSTON, TX 77001

MATERIAL Methanol

MSDS NO. 110 DATE 4/84

I. MATERIAL IDENTIFICATION

MATERIAL / TRADE NAME Methanol

24 HOUR EMERGENCY TELEPHONE

TENNECO 713 479-3411

CHEMTREC 800 424-9300

SYNONYMS Methyl Alcohol, Wood Alcohol, Carbinol

CHEMICAL FAMILY / FORMULA Alcohols/ CH_3OH

CAS NO. 67-56-1

HAZARD RATING*

☐ 1 HEALTH

☐ 3 FIRE

☐ 0 REACTIVITY

0 LEAST 3 HIGH
1 SLIGHT 4 EXTREME
2 MODERATE * NFPA 704

II. INGREDIENTS

COMPOSITION

Methyl Alcohol

%

99.9

TOXICITY DATA

8 hr TWA 200ppm ($260\text{mg}/\text{m}^3$) (skin)

Human

Eye-5ppm

Oral-LDLo $340\text{mg}/\text{kg}$

Inhalation-TCLo $86000\text{mg}/\text{m}^3$ (irritator)

Rat - Oral

LD₅₀ $13\text{gm}/\text{kg}$

III. PHYSICAL DATA

BOILING POINT, 760mm/Hg - 148°F (64.5°C)

SOLUBILITY IN H_2O , % BY WEIGHT - Totally miscible

SPECIFIC GRAVITY, $\text{H}_2\text{O}=1$ - 0.791

EVAPORATION RATE, BUTYL ACETATE=1 - 4.6

VAPOR PRESSURE, mm/Hg - 96 @ 68°F (20°C)

Molecular Weight - 32.04

VAPOR DENSITY, AIR=1 - 1.11

Melting Point - -144°F (-97.8°C)

VOLATILES, % BY VOLUME - 100

APPEARANCE AND ODOR Clear, colorless liquid with characteristic alcohol odor. Less pure grades may have a pungent, oily odor.

IV FIRE AND EXPLOSION DATA

FLASH POINT AND TEST METHOD

54°F (12.2°C) TCC

AUTO IGNITION TEMPERATURE

867°F (464°C)

FLAMMABILITY LIMITS IN AIR, % BY VOLUME

LOWER 6 UPPER 36.5

EXTINGUISHING MEDIA

Dry chemical, alcohol type foam, CO_2 . Water may be ineffective. Use water spray to cool fire exposed containers. Use alcohol resistant foam to extinguish large fires or to blanket spill to reduce vapors.

SPECIAL FIRE FIGHTING PROCEDURES

Class IB flammable liquid. Avoid water streams which may splash and spread flammable liquid. Vapors are heavier than air and may flow along surfaces to distant ignition sources and flash back. Fire fighters should use self-contained breathing equipment and protective clothing for fires in enclosed areas.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Reacts violently to oxidizers. Keep away from heat, sources of ignition. Burns with a clear, almost invisible flame, especially hard to see in strong sunlight.

V. REACTIVITY DATA

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STABILITY



STABLE



UNSTABLE

HAZARDOUS POLYMERIZATION



MAY OCCUR



WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID

Avoid strong oxidizing agents, excessive heat, sources of ignition.

HAZARDOUS DECOMPOSITION PRODUCTS

carbon monoxide, carbon dioxide

VI. OCCUPATIONAL EXPOSURE LIMITS

OSHA TLV - 200ppm 8 hr TWA ($260\text{mg}/\text{m}^3$) Skin
ACGIH(1984)ABOS "Skin" notation

VII. HEALTH INFORMATION

Methanol is a poisonous chemical that can affect the body through inhalation, skin absorption or ingestion.

Inhalation causes dizziness, nausea, visual impairment, respiratory failure, muscular incoordination, and narcosis.

Ingestion can produce blindness, dizziness, headache and in amounts of 100-250ml can be fatal.

Skin contact causes irritation, dryness, dermatitis and erythema. Eye contact causes irritation.

Toxic effects from repeated over exposure to methanol are accumulative and effect the central nervous system, especially the optic nerve. These symptoms may linger for several days after exposures.

VII. EMERGENCY AND FIRST AID PROCEDURES

Skin - wash with soap and water immediately after contact. Remove contaminated clothing immediately. Launder before reuse.

Eyes - Flush with large amounts of water for 15 minutes, getting under eyelids. Contact physician if irritation persists.

Inhalation - remove to fresh air. Restore breathing if necessary. Administer oxygen if breathing difficulty persists and contact physician for advice.

Ingestion - Drink large amounts of water, milk or sodium bicarbonate to dilute material in stomach. Induce vomiting if victim is conscious. Consult physician for additional advice and treatment.

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IX. EMPLOYEE PROTECTION**RESPIRATORY PROTECTION**

Provide adequate ventilation or exhaust to meet TLV requirements. Air supplied or self-contained breathing equipment recommended for exposures above TLV.

PROTECTIVE CLOTHING

Rubber gloves and rubber protective aprons or clothing required to prevent skin contact. Goggles or face shield should be used to protect face and eyes from splashing.

OTHER PROTECTIVE MEASURES

Eye wash and safety shower should be provided in area of use.

X. ENVIRONMENTAL PROTECTION**SPILL CLEAN-UP PROCEDURE**

Eliminate all ignition sources. Stop spill or leak if it can be done safely. Contain spill to smallest area possible. Use absorbent materials to soak up small spills. Larger spills should be recovered for reuse or disposal. Spills in critical areas can be diluted with water to reduce fire hazard during cleanup.

Do not allow to material to enter sewers, drains or waterways.

WASTE DISPOSAL

Waste materials should be disposed of by a licensed solvent waste disposal company. Federal, state and local regulations must be followed.

ENVIRONMENTAL HAZARDS

Aquatic toxicity rating - TLm 96: over 1000 ppm.

XI. SPECIAL PRECAUTIONS

Store in closed containers in cool place.

No smoking allowed in areas of use or storage.

Use explosion-proof electrical fixtures.

Containers should be electrically grounded/bonded during material transfer to prevent static spark.

Corrosive to lead and aluminum.

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XII. TRANSPORTATION REQUIREMENTS

DOT SHIPPING NAME - Methanol or methyl alcohol

DOT I.D. NO. - UN1230

DOT CLASSIFICATION - Flammable liquid

UN HAZARD CLASS - UN1230

IMCO class - 3.2

XIII. OTHER REGULATORY CONTROLS

None determined

THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. SUCH INFORMATION IS TO THE BEST OF THIS COMPANY'S KNOWLEDGE AND BELIEVED ACCURATE AND RELIABLE AS OF THE DATE INDICATED. HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABLENESS AND COMPLETENESS OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.

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P. O. BOX 2511
HOUSTON, TX 77001
A TENNECO COMPANY

DATE PREPARED August, 1985

APPROVED BY E. Wayne Drusch
TENNECO OIL PROCESSING & MARKETING
(713) 757-3113

MATERIAL SAFETY DATA SHEET
COMPLIES WITH OSHA'S HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

SECTION I - PRODUCT IDENTIFICATION

Product Name: CITRA STRIP - Baseboard Cleaner & Wax Stripper
 Product Number: 478
 Product Type: AEROSOL
 Supplier's Name: Terand Industries, Inc.
 Supplier's Address: P.O. Box 9947, Ft. Lauderdale, FL 33310
 D.O.T. Hazard Class: CONSUMER COMMODITY - ORM-D

Formula: Proprietary
 Date Prepared: 04/05/99
 Emergency Phone: (800) 255-3024
 Information Phone: (954) 974-5440

HMIS Rating (Based on Aerosol Conc.):
 0-Minimal 1- Slight 2- Moderate
 3- Serious 4- Extreme
 HEALTH: 2 FIRE: 2 REACTIVITY: 1
 Personal Protection: B

SECTION II - INGREDIENTS

CHEMICAL NAME	CAS #	%WT	313/Chem	Skin	Carcinogen	PEL	TWA/TLV
Sodium Hydroxide	1310-73-2	01-05	NO	NO	NO	2mg/m ³	2mg/m ³
Citrus Terpene	5989-27-5	01-05	NO	NO	NO	400 ppm	400 ppm
Sodium Metasilicate	6834-82-0	01-05	NO	NO	NO		
Liquified Petroleum Gas	68476-85-7	05-10	NO	NO	NO	1000ppm	1000ppm

SECTION III - PHYSICAL DATA

Data Below Based On Aerosol Concentrate Only:

Boiling Point: -190 °F

pH: 13

Solubility In Water: Complete

Appearance/Odor: White Milky Liquid with Citrus Scent

Data Below Based On Total Contents:

Vapor Pressure of can (psig @72°F): 45

Total VOC %: ~ 10%

Vapor Density(Air=1): >1

Specific Gravity (H₂O=1)@75°F: 1.020

SECTION IV - FIRE AND EXPLOSION DATA

Flash Point (of Concentrate Only): ~129°F

Extinguishing Media: Foam, CO₂, Dry Media

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. Cool fire exposed containers to prevent rupturing.

Unusual Fire and Explosion Hazards: Exposure to temperature above 120° F may cause bursting.

Flammability (as per USA Flame Projection Test): Non-Flammable Spray

SECTION V - REACTIVITY DATA

Stability: Material Stable.

Hazardous Polymerization: Will not Occur.

Incompatibility: Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products: Carbon Dioxide, Carbon Monoxide.

SECTION VI - STORAGE AND HANDLING

KEEP OUT OF REACH OF CHILDREN.

For Industrial and Institutional use only.

Store in a cool, dry area away from heat or open flame.

Do not store at temperatures above 120° F

NFPA Code 30B Rating: Level 1 Aerosol.

SECTION VII - HEALTH AND FIRST AID

PRIMARY ROUTES OF ENTRY & EFFECTS OF OVER EXPOSURE:

Eyes: Causes severe irritation, redness, tearing and blurred vision.

Skin: Prolonged contact causes irritation, redness and possible burns.

Inhalation: Inhalation of mist can cause irritation of nasal and respiratory passages and damage to mucous membranes.

Ingestion: Can cause damage to mucous membranes and deep tissue.

FIRST AID PROCEDURES:

Eyes: Flush with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. Get medical attention immediately.

Skin: Flush with water then wash with vinegar. If irritation persists seek medical attention.

Inhalation: Remove to fresh air. Seek medical attention immediately. If breathing stops give artificial respiration.

Ingestion: Do not induce vomiting. Victim should drink large quantities of water or milk. Follow with citrus fruit juice. Seek medical attention immediately.

SECTION VIII - SPECIAL PROTECTION DATA

Respiratory Protection: None needed for proper use in accordance with label directions.

Ventilation: Provide local exhaust to keep TLV of Section II ingredients below acceptable limits.

Protective Gloves: None needed for proper use in accordance with label directions. Use chemical resistant gloves if hand contact will be made.

Eye Protection: None needed unless it is anticipated that a splash or spray back will occur, then wear safety glasses or chemical proof goggles.

SECTION IX - SPILL OR LEAK PROTECTION

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK: Allow propellant to evaporate. Maintain local exhaust and adequate ventilation. No smoking. Keep sparks, heat sources and open flame far away from spill or leak. Cover with absorbent material and sweep up. Wash area to prevent slipping. Dispose of soaked absorbent material in accordance with Federal, State and local laws.

WASTE DISPOSAL METHOD: Aerosol cans, when emptied and depressurized through normal use, pose no disposal hazard and should be recycled. Consult Federal, State and local authorities for approved procedures.

N/A= NOT APPLICABLE · N/E=NOT ESTABLISHED · N/D=NOT DETERMINED · <=LESS THAN · >=MORE THAN

NOTICE: The information contained on this Material Safety Data Sheet is considered accurate as of the date of publication. It is not necessarily all inclusive nor fully adequate in every circumstance. The suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, express or implied, of merchantability, fitness, accuracy of data, or the results to be obtained from the use thereof is made. The vendor assumes no responsibility for injury or damages resulting from the inappropriate use of this product.