

An ISO 9001:2000
Certified Company



THE POWER OF THREE³

PHARMCO-AAPER

AND COMMERCIAL ALCOHOLS

Product Information (203) 740-3471 / Emergency Assistance CHEMTREC 1-800-424-9300 or 202-483-7616

MATERIAL SAFETY DATA SHEETS

Part Number/Trade Name: 2,2,4 – Trimethylpentane
This MSDS is valid for all grades that start with catalog number 398

General Information

Manufacturer:	PHARMCO-AAPER 58 Vale Road Brookfield, Connecticut 06804, USA Phone (203) 740-3471 Fax (203) 740-3481	1101 Isaac Shelby Drive Shelbyville, KY 40065 Phone (502) 633-0650 Fax (502) 633-0685
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Ingredients/Identity Information

Proprietary: NO	CAS Number: 540-81-1
Ingredient: ISOOCTANE (2,2,4-TRIMETHYLPENTANE)	OSHA PEL: NOT ESTABLISHED
Ingredient Sequence Number: 01	ACGIH TLV: NOT ESTABLISHED
Percent: 100	Other Recommended Limit: NONE
NIOSH (RTECS) Number: SA3320000	RECOMMENDED

Physical/Chemical Characteristics

Appearance And Odor: CLEAR, COLORLESS, MOBILE LIQUID; GASOLINE ODOR
Boiling Point: 210F,99C
Melting Point: -161F,-107C
Vapor Pressure (MM Hg/70 F): 41 MM HG
Vapor Density (Air=1): 3.9(AIR=1)
Specific Gravity: 0.6919(WATER=1)
Decomposition Temperature: UNKNOWN
Evaporation Rate And Ref: <1 (N-BUTYL ACETATE=1)
Solubility In Water: NEGLIGIBLE
Percent Volatiles By Volume: 100
Corrosion Rate (IPY): UNKNOWN
Autoignition Temperature: 779F

Fire and Explosion Hazard Data

Flash Point: 10F,-12C
Flash Point Method: COC
Lower Explosive Limit: 1.1
Upper Explosive Limit: 6.0
Extinguishing Media: DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY, REGULAR

FOAM

Special Fire Fighting Proc: WEAR SELF-CONTAINED BREATHING APPARATUS AND BUNKER GEAR. MOVE CONTAINERS IF NO RISK. COOL FIRE EXPOSED CONTAINERS WITH WATER.

Unusual Fire And Expl Hazrds: EXTREMELY FLAMMABLE. EVACUATE A RADIUS OF 1500 FEET FOR UNCONTROLLABLE FIRES. CONSIDER EVACUATION DOWNWIND IF MATERIAL IS LEAKING.

Reactivity Data

Stability: YES

Cond To Avoid (Stability): AVOID SOURCES OF IGNITION AND CONTACT WITH INCOMPATIBLE MATERIALS.

Materials To Avoid: STRONG OXIDIZING AGENTS AND REDUCING AGENTS.

Hazardous Decomp Products: OXIDES OF CARBON

Hazardous Poly Occur: NO

Conditions To Avoid (Poly): NONE

Health Hazard Data

LD50-LC50 Mixture: ORAL LD50 (RAT) IS > 5000 MG/KG

Route Of Entry - Inhalation: YES

Route Of Entry - Skin: YES

Route Of Entry - Ingestion: YES

Health Haz Acute And Chronic: ACUTE: INHALATION OF VAPORS MAY CAUSE RESPIRATORY IRRITATION AND CENTRAL NERVOUS SYTEM DEPRESSION. CONTACT WITH

SKIN AND EYES MAY CAUSE IRRITATION. SWALLOWING MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION AND DIGESTIVE SYSTEM DISTRESS. CHRONIC: PROLONGED OR REPEATED INHALATION MAY CAUSE POLYNEUROPATHY; DERMATITIS.

Carcinogenicity - NTP: NO

Carcinogenicity - IARC: NO

Carcinogenicity - OSHA: NO

Explanation Carcinogenicity: NONE

Signs/Symptoms Of Overexp: INHALED: DIZZINESS, COUGHING, SHORTNESS OF REDNESS, DISCOMFORT. SKIN: REDNESS, DISCOMFORT, SYSTEMIC EFFECTS SIMILAR TO INHALATION AND INGESTED. INGESTED: NAUSEA, DIARRHEA, DIFFICULTY BREATHING, VOMITING, DIZZINESS, HEADACHE.

Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.

Emergency/First Aid Proc: INHALED: MOVE TO FRESH AIR. IF BREATHING STOPPED, GIVE ARTIFICIAL RESPIRATION. SEE DOCTOR. EYES: FLUSH WITH LOTS OF WATER FOR 15 MINUTES, HOLDING LIDS OPEN. SEE DOCTOR. SKIN: REMOVE CONTAMINATED CLOTHES. WASH WITH SOAP AND WATER. INGESTED: DO INDUCE VOMITING EXCEPT UNDER MEDICAL PERSONNEL/DOCTORS ORDERS. TAKE CARE TO PREVENT ASPIRATION OF PRODUCT IF VOMITING OCCURS.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: ELIMINATE ALL SOURCES OF IGNITION. ISOLATE/DENY ENTRY. STOP LEAK IF POSSIBLE. CONTAIN SPILL. WEAR PROPER PROTECTIVE CLOTHING. ABSORB WITH INERT MATERIAL AND PLACE IN A LABELED CONTAINER FOR LATER DISPOSAL. KEEP OUT OF SEWERS AND WATERWAYS.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Method: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. WASTE MATERIAL IS EPA WASTE # D001. REPORTABLE

QUANTITY FOR CERCLA SECTION 103 IS 100 POUNDS.

Precautions-Handling/Storing: STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM SOURCES OF IGNITION AND INCOMPATIBLE MATERIALS. KEEP CONTAINER CLOSED.

Other Precautions: NONE SPECIFIED BY MANUFACTURER. HMIS: USE PROPER GRONDING AND BONDING DURING TRANSFER OPERATIONS.

Control Measures

Respiratory Protection: IF ENGINEERING CONTROLS FAIL OR A SPILL OCCURS; USE NIOSH/MSHA APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE, OR SUPPLIED AIR RESPIRATOR, OR SCBA, AS APPROPRIATE. USE IN ACCORDANCE WITH 29 CFR 1910.134.

Ventilation: EXPLOSION-PROOF LOCAL EXHAUST VENTILATION MUST BE PROVIDED TO MEET PUBLISHED EXPOSURE LIMITS.

Protective Gloves: NITRILE, PVA

Eye Protection: SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment: IMPERVIOUS CLOTHING TO PREVENT PROLONGED OR REPEATED SKIN CONTACT. EYE WASH STATION.

Work Hygienic Practices: WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.

Transportation Data

DOT Proper Shipping Name: OCTANES

DOT Class: 3

DOT ID Number: UN1262

DOT Pack Group: II

DOT Label: FLAMMABLE LIQUID

IMO PSN Code: ISU

IMO Proper Shipping Name: ISOOCTANE

IMO Regulations Page Number: SEE3267 *

IMO UN Number: 1262

IMO UN Class: 3.2

IMO Subsidiary Risk Label: -

IATA PSN Code: SLF

IATA UN ID Number: 1262

IATA Proper Shipping Name: OCTANES

IATA UN Class: 3

IATA Label: FLAMMABLE LIQUID

AFI PSN Code: SLF

AFI Prop. Shipping Name: OCTANES

AFI Class: 3

AFI ID Number: UN1262

AFI Pack Group: II

AFI Label: FLAMMABLE LIQUID

AFI Basic Pac Ref: 7-7

Disposal Data

Refer to applicable regional, state and federal codes.

Label Data

Common Name: 2,2,4-TRIMETHYLPENTANE

Chronic Hazard: YES

Signal Word: DANGER!

Acute Health Hazard-Moderate: X

Contact Hazard-Slight: X

Fire Hazard-Severe: X

Reactivity Hazard-None: X

Special Hazard Precautions: FLAMMABLE.INHALATION OF VAPORS MAY CAUSE RESPIRATORY IRRITATION AND CNS DEPRESSION.CONTACT WITH SKIN/EYES MAY CAUSE IRRITATION.SWALLOWING MAY CAUSE CNS DEPRESSION AND DIGESTIVE SYSTEM

DISTRESS.PROLONGED OR REPEATED EXPOSURE MAY CAUSE POLYNEUROPATHY;
DERMATITIS.FIRST AID:INHALED:MOVE TO FRESH AIR.IF BREATHING STOPPED, GIVE
ARTIFICIAL RESPIRATION.SEE DOCTOR.EYES:FLUSH WITH LOTS OF WATER FOR 15
MINUTES, HOLDING LIDS OPEN. SEE DOCTOR.SKIN:REMOVE CONTAMINATED CLOTHES.
WASH WITH SOAP AND WATER.INGESTED:DO INDUCE VOMITING EXCEPT UNDER
MEDICAL
PERSONNEL/DOCTORS ORDERS.TAKE CARE TO PREVENT ASPIRATION OF PRODUCT IF
VOMITING OCCURS.

Protect Eye: Y

Protect Skin: Y

Protect Respiratory: Y

Regulatory Data

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal or greater than the reportable quantities (RQs) in 40 CFR 302.4. Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS Number	RQ
2,2,4-Trimethylpentane	540-84-1	1,000lb

The information contained herein is based on data considered to be accurate. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use of the product.