

1. PRODUCT NAME: 2,4-Dimethyl-3-Pentanone (Crude)

2. CHEMICAL NAME: (Mixture)

3. SYNONYMS:

4. CAS NUMBER: (Mixture)

5. COMPOSITION: Diisopropyl - Cas: 565-80-0, Weight %: 80-92%
Isobutyl isobutyrate - Cas: 97-85-8, Weight %: 1 - 8%
Isobutanol - Cas: 78-83-1, Weight %: 0.5 - 3%
High Boilers - Cas: impurities; not applicable, Weight %: <=10%
Low boilers - Cas: impurities; not applicable, Weight %: <=5%

6. PROPERTIES: PHYSICAL FORM: Liquid
COLOR: colorless
ODOR: ketone
SPECIFIC GRAVITY: < 1 (20 C)
VAPOR DENSITY: 3.9
BOILING POINT: 120 C
SOLUBILITY IN WATER: Negligible
FLASH POINT: 22.2 C (Tag closed cup)
THERMAL DECOMPOSITION TEMPERATURE: not available

7. HAZARDS: DANGER! Causes severe eye burns. Causes skin burns. Harmful if swallowed. Mist or Vapor extremely irritating to eyes and respiratory tract flammable liquid and vapor. Peroxide former.
HMIS® HAZARD RATINGS: Health - 3, Flammability - 3, Chemical Reactivity - 0

8. FIRE FIGHTING INFORMATION: EXTINGUISHING MEDIA: water spray, dry chemical, carbon dioxide, foam
SPECIAL FIRE-FIGHTING PROCEDURES: Wear self-contained breathing apparatus and protective clothing. USE WATER WITH CAUTION. Use water spray to keep fire-exposed containers cool. Prevent buildup of vapors or gases to explosive concentrations. Water may be ineffective in fighting the fire.
HAZARDOUS COMBUSTION PRODUCTS: carbon dioxide, carbon monoxide
UNUSUAL FIRE EXPLOSION HAZARDS: Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Material will float and may ignite on surface of water.

9. PERSONAL PROTECTION MEASURES: ISOBUTYL ALCOHOL: US.ACGIH Threshold Limit Values -
Time weighted average (TWA): 50 ppm, 152 mg/m³
US.NIOSH: Pocket Guide to Chemical Hazards -
Recommended exposure limit (REL): 50 ppm, 150 mg/m³
US.OSHA Table Z-1 Limits for Air Contaminants
(29 CFR 1910.1000) - PEL: 100 ppm, 300 mg/m³
US.OSHA Table Z-1-A (29 CFR 1910.1000) -
Time Weighted Average (TWA): 50 ppm, 150 mg/m³
ISOBUTYL ALCOHOL; 2-METHYLPROPANOL: US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants Time Weighted Average (TWA) Permissible Exposure Limit (PEL): 50 ppm, 150 mg/m³
VENTILATION: Good general ventilation (Typically 10 air changes per hour) should be used. Ventilations rates should be matched to conditions. Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. NOTE: Some

IN CASE OF
TRANSPORT EMERGENCY
CONTACT CHEMTREC
USA: 1-800-424-9300
INTERNATIONAL: 1-703-527-3887



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countries might not have established exposure limits, to maintain airborne levels below recommended exposure limits.

RESPIRATORY PROTECTION: If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respiratory type: full-face positive-pressure air-supplied.

EYE PROTECTION: Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

SKIN PROTECTION: Wear chemical-resistant gloves, boots, and protective clothing appropriate for the risk of exposure. Contact glove manufacturer for specific information.

RECOMMENDED DECONTAMINATION FACILITIES: eye bath, safety shower, washing facilities.

10. **FIRST AID PROCEDURES:** **INHALATION:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician or poison control center immediately.
EYES: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.
SKIN: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.
INGESTION: Do NOT induce vomiting. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
11. **EXPOSURE LIMITS:** Country specific exposure limits have not been established or are not applicable.
12. **TOXICOLOGICAL INFORMATION:** Oral LD-50: (rat) – 1,600 – 3,200 mg/kg
Dermal LD-50: (guinea pig) – 4,100 – 8,200 mg/kg
Skin Irritation (mouse) – severe
Eye Irritation (rabbit) – severe
13. **ECOLOGICAL INFORMATION:** Data for the major components of this product are contained in individual material safety data sheets which are available on request.
14. **DISPOSAL CONSIDERATIONS:** Discharge, treatment, or disposal may be subject to national, state, or local laws. Mix with compatible chemical which is less flammable and incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near this container.
15. **CARCINOGENIC PROPERTIES & NOTIFICATIONS:** Carcinogenicity Classification (components present at 0.1% or more): none, unless listed below.
16. **TRANSPORT INFORMATION:** DOT (USA): Class 3 Packing group III
ICAO STATUS: Class 3 Packing group III
IMDG STATUS: Class 3.3 Packing group III
17. **HANDLING & STORAGE:** **PERSONAL PRECAUTIONARY MEASURES:** Do not get in eyes, on skin, on clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash thoroughly after handling.
PREVENTION OF FIRE AND EXPLOSION: Keep away from heat, sparks, and flame. Keep from contact with oxidizing materials. Use only with adequate ventilation. Minimize exposure to air. After opening, purge container with nitrogen before re-closing. If peroxide formation is suspected, do not open or



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move container with nitrogen before re-closing. If peroxide formation is suspected, do not open or move container. Do not allow to evaporate to near dryness. Distill with caution. Addition of water or appropriate reducing materials will lesson peroxide formation. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

STORAGE: Keep container closed.

ADDITIONAL INFORMATION: Store away from heat and light. Keep material from heat, light, sparks and flame.

18. ACCIDENTAL RELEASE MEASURES: Use personal protective equipment. Eliminate all ignition sources. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.
FOR LARGE SPILLS: Use water spray to disperse vapors and flush spill area. Prevent runoff from entering drains, sewers, or streams.
19. REGULATORY INFORMATION: WHMIS (Canada) Status: controlled
WHMIS (Canada) Hazard Classification: B/2, D/2/B
SARA 311-312 HAZARD CLASSIFICATIONS: immediate (acute) health hazard fire hazard.
SARA 313: none
IARC: Not listed
ACGIH: Not listed
NTP: Not listed
OSHA: Not listed
TSCA: All components of this product are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.
DSL and CEPA: All components of this product are listed on the DSL. Any impurities present in this product are exempt from listing.