

1. PRODUCT NAME: Methyl Amyl Ketone
2. CHEMICAL NAME: 2-Heptanone
3. SYNONYMS: n-AMYL METHYL KETONE
4. CAS NUMBER: 110-43-0
5. COMPOSITION: 2-Heptanone 110-43-0 100%

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

6. PROPERTIES: Odour & Appearance clear, colourless, liquid with sweetish, cloying odour
Odour Threshold 0.18 – 0.20 ppm
Vapour Pressure 2.1 mmHg, 0.28 kPa (25oC)
Vapour Density (air = 1) 3.9
Boiling Point 151oC
Freezing Point -27oC
Specific Gravity 0.817 (20oC)
Water Solubility 0.43 g/100ml (20oC)
Flash Point 39oC (closed cup)
Autoignition Temperature 393oC
Flammable Limits 1.1% - 7.9%
Hazardous Combustion Products carbon monoxide, nitrogen oxides, smoke, hydrocarbon fragments
Firefighting Precautions foam, dry chemical, water fog, water spray only to cool, product floats on water - water jet spreads flames; firefighters must wear SCBA
Sensitivity to Static Discharge sensitive
Sensitivity to Mechanical Impact not sensitive
Chemical Stability stable; will not polymerize
Reactive With strong oxidising agents, strong mineral acids, strong alkalies
Dangerous Decomposition Products none apart from “Hazardous Combustion Products”

7. HAZARDS:

8. FIRE FIGHTING INFORMATION: Firefighting Precautions: foam, dry chemical, water fog, water spray only to cool, product floats on water - water jet spreads flames; firefighters must wear SCBA

9. PERSONAL PROTECTION MEASURES: Hands polyvinyl alcohol gloves are best; others may also be effective – do not use “Viton”
Eyes safety glasses with side shields or chemical goggles
Respirator not required if ventilation is adequate (see TWAEV, (1) above), or use organic vapour cartridge
Clothing impervious (hands, above) apron, boots, long sleeves, if splashing is anticipated

10. FIRST AID PROCEDURES: SKIN: Wash with soap and plenty of water. Remove contaminated clothing and do not reuse until thoroughly cleaned or laundered.
EYES: Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if there is any irritation.
INHALATION: Remove from contaminated area promptly. CAUTION: Rescuer must not endanger himself! If breathing stops, administer artificial respiration and seek medical aid promptly.
INGESTION: Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, keep victim’s head below hips to prevent inhalation of vomited material. Seek medical help promptly. NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The risk and danger of this is greater than the risk of poisoning through absorption of this product. The stomach should be emptied under medical supervision, after the installation of an airway to protect

the lungs.

11. EXPOSURE
LIMITS:

12. TOXICOLOGICAL EFFECTS OF ACUTE EXPOSURE

INFORMATION: Skin Contact mild irritant
Skin Absorption yes; no toxic effects anticipated by this route
Eye Contact irritating; redness, temporary blurred vision; no permanent injury anticipated
Inhalation respiratory irritation; narcotic in high vapour concentration
Ingestion nausea, vomiting, diarrhoea; irritation of mouth, throat, etc.
EFFECTS OF CHRONIC EXPOSURE
General prolonged exposure may cause dermatitis; otherwise no effect known
Sensitising no
Carcinogenic no effects documented in humans
Reproductive Effect no effects documented in humans
Synergistic With not known
Estimated LD50 730 mg/kg (oral, mouse); 1670 mg/kg (oral, rat); 10,300 mg/kg (skin, rabbit)
Estimated LC50 4000 ppm (inhalation. rat)

13. ECOLOGICAL NE
INFORMATION:

14. DISPOSAL Do not flush to sewer. Dispose of this product in accordance with all applicable regulations.
CONSIDERATIONS:

15. CARCINOGENIC No documented effects.
PROPERTIES &
NOTIFICATIONS:

16. TRANSPORT UN - 1110
INFORMATION: Shipping Name: n-AMYL METHYL KETONE
Transport of Dangerous Goods Class: Class 3; Packing Group III
WHMIS: Class B 3
Material Use: solvent, synthetic flavour, perfumery

17. HANDLING & STORAGE: Store and use in a cool dry environment, away from sources of ignition, heat, oxidising agents, acids and alkalis. Use with adequate ventilation. Ground the container before handling to prevent static discharge which may cause ignition. Do not cut, drill, weld or grind on or near this container. The cloying odour should discourage ingestion and inhalation. The likelihood of inhaling a toxic dose is reduced by the low vapour pressure of this product. Avoid prolonged contact with skin and wash work clothes frequently. An eye bath and safety shower should be available near the workplace.

18. ACCIDENTAL Leak Precaution: dyke to control spillage and prevent environmental contamination; if fire potential exists ,
RELEASE blanket with foam as a precaution
MEASURES: Handling Spill: ventilate contaminated area; recover free liquid with explosion-proof pumps; absorb residue on an inert sorbent (dry sand, earth) and store in closed containers for disposal