

1. PRODUCT NAME: Alpha Methyl Styrene
2. CHEMICAL NAME: (1-Methylethenyl) Benzene
3. SYNONYMS: ISOPROPENYLBENZENE, AMS
4. CAS NUMBER: 98-83-9
5. COMPOSITION: (1-Methylethenyl) Benzene

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 characteristic (unpleasant) odour
Odour Threshold: 0.06 ppm
Vapour Pressure: 1.9 mmHg @ 20oC
Vapour Density: (air = 1) 4.1
Boiling Point: 165oC
Freezing Point: -23oC
Specific Gravity: 0.91
Water Solubility: 0.06% (25oC)

7. HAZARDS: Material Use: monomer for polymer plastics manufacture

8. FIRE FIGHTING INFORMATION: Flash Point: 48oC
Autoignition Temperature: 574oC
Flammable Limits 1.9% - 6.1%
Hazardous Combustion Products: carbon monoxide, nitrogen oxides, smoke
Firefighting Precautions: alcohol 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: not sensitive
Sensitivity to Mechanical Impact: sensitive
Chemical Stability: may polymerize when heated, producing a lot of heat; may form peroxides on prolonged contact with air
Reactive With: strong oxidising agents; copper & copper alloys, acids, free radicals, halogenated compounds
Dangerous Decomposition Products: organic acids

9. PERSONAL PROTECTION MEASURES: Hands: "Viton", PVC, natural rubber gloves
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 (see NOTE below). Keep victim quiet. If vomiting occurs, keep victim's head below the 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



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emptied under medical supervision, after the installation of an airway to protect the lungs.

11. EXPOSURE TWAEV - 50ppm
LIMITS: LD50 ORAL - 4500
SKIN (mg/kg) - >15,000
LC50 INHALATION - >3000ppm

12. TOXICOLOGICAL EFFECTS OF ACUTE EXPOSURE
INFORMATION: Skin Contact may irritate
Skin Absorption slight; no toxic effects anticipated by this route
Eye Contact irritating; lachrymator (causes tears to flow)
Inhalation irritating (200 ppm objectionable); headache, dizziness, drowsiness, intoxication
Ingestion toxic effects unknown
EFFECTS OF CHRONIC EXPOSURE
General prolonged exposure may cause skin cracking and dermatitis
repeated exposure may cause liver and kidney damage; metabolic problems, spasticity
Sensitising no
Carcinogenic not a carcinogen, although a human mutagen by RTECS criteria
Reproductive Effect none known
Synergistic With not known
Estimated LD50 4500 mg/kg (oral, mouse); above 15,000 mg/kg (skin, rabbit)
Estimated LCabove 3000 ppm (inhalation, rat)

13. ECOLOGICAL NA
INFORMATION:

14. DISPOSAL Do not flush to sewer; may be incinerated in approved facility.
CONSIDERATIONS:

15. CARCINOGENIC Not a carcinogen, although a human mutagen by RTECS criteria.
PROPERTIES &
NOTIFICATIONS:

16. TRANSPORT UN - 2303
INFORMATION: Shipping Name: ISOPROPENYL BENZENE
Transport of Dangerous Goods Class: Class 3, Packing Group III
WHMIS Class: B 3; D 2B
Material Use: monomer for polymer plastics manufacture

17. HANDLING & STORAGE: Store and use in a cool dry environment, away from sources of ignition, heat, acids, copper and its alloys, and oxidising agents. Store away from oxidising agents and free radical initiators. Keep below 54°C. 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. Avoid prolonged contact with skin and wash work clothes frequently. An eye bath and safety shower should be available near the workplace.

18. ACCIDENTAL RELEASE Leak Precaution: dyke to control spillage and prevent environmental contamination; if fire potential exists, 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



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19. REGULATORY
INFORMATION: