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THE POWER OF THREE³

PHARMCO-AAPER

AND COMMERCIAL ALCOHOLS

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

MATERIAL SAFETY DATA SHEETS

Manufacturer: PHARMCO-AAPER
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1,3,5-Trimethylbenzene

1. CHEMICAL PRODUCT IDENTIFICATION

Product Name: 1,3,5-Trimethylbenzene
Synonym(s): Mesitylene; 3,5-Dimethyltoluene; Trimethylbenzol
Molecular Formula: $C_6H_3(CH_3)_3$
Molecular Weight: 120.20

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS	Weight % -
1,2,4-Trimethylbenzene	108-67-8	98%

3. HAZARDS IDENTIFICATION

WARNING! FLAMMABLE LIQUID. HARMFUL IF INHALED, IN CONTACT WITH SKIN AND IF SWALLOWED. IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

NFPA Hazard Ratings: Health - 0, Flammability - 2, Reactivity - 0

NOTE: NFPA ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe

handling of this material, all the information contained in this MSDS must be considered.

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation. Prolonged and/or repeated contact may cause defatting of the skin and dermatitis.

Ingestion: Aspiration hazard. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, and nausea.

Inhalation: Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, and dizziness.

Target Organs: Nerves and blood.

4. FIRST-AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flash Point: 44 C

Explosion Limits: Lower: 0.88

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. Liquid will float and may reignite on the surface of water.

Extinguishing Media: Use water spray to cool fire-exposed containers. This material is lighter than water and insoluble in water. The fire could easily be spread by the use of water in an area where the water cannot be contained. Use dry chemical, carbon dioxide, or alcohol-resistant foam.

6. ACCIDENTAL RELEASE MEASURES

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical waste container. Avoid runoff into storm sewers and ditches, which lead to waterways. Remove all sources of ignition. Use a spark-proof tool.

7. HANDLING AND STORAGE

Handling: Use only in a well ventilated area. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Avoid contact with heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Ventilation fans and other electrical service must be non-sparking and have an explosion-proof design.

Personal Protective Equipment

Eyes: Wear safety glasses and chemical goggles if splashing is possible.

Skin: Wear impervious gloves.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A NIOSH/MSHA approved or European Standard EN 149 air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected. A respiratory protection program that meets OSHA's 29 CFR '1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Appearance: clear, colorless

Vapor Density: 4.1 (air=1)

Boiling Point: 162-164 C

Freezing/Melting Point: -45 C

Specific Gravity/Density: 0.864

10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

Conditions to Avoid: Ignition sources, excess heat, electrical sparks and oxidizers.

Incompatibilities with Other Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

11. TOXICOLOGICAL INFORMATION

RTECS#: OX6825000

Irritation Date
SKN-RBT 20 MG/24H MOD 85JCAE -,34,1986
EYE-RBT 500 MG/24H MLD 85JCAE -,34,1986

Toxicity Date
IHL-RAT LC50:24 GM/M3/4H GISAAA 44(5),15,1979

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not available.
Environmental Fate: Not available.
Physical/Chemical: Not available.
Other: Not available.

13. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.
RCRA D-Series Maximum Concentration of Contaminants: None listed.
RCRA D-Series Chronic Toxicity Reference Levels: None listed.
RCRA F-Series: None listed.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

14. TRANSPORT INFORMATION

Domestic (Land, D.O.T.)
Proper Shipping Name: 1,3,5-Trimethylbenzene
Hazard Class: 3
UN/NA: UN2325
Packing Group: III

International (Water, I.M.O.)
Proper Shipping Name: Flammable Liquid, N.O.S. (1,2,4-Trimethylbenzene)
Hazard Class: 3.3
UN/NA: UN2325
Packing Group: III

15. REGULATORY INFORMATION

EUROPEAN INFORMATION
EC INDEX NO: 601-025-00-5

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK
OEL-DENMARK: TWA 25 PPM (120 MG/M3), JAN1999
OEL-GERMANY: NO MAK ESTABLISHED, JAN1999
OEL-JAPAN: OEL 25 PPM (120 MG/M3), JAN1999
OEL-NORWAY: TWA 20 PPM (100 MG/M3), JAN1999
OEL-SWEDEN: NGV 25 PPM (120 MG/M3), KTV 35 PPM (170 MG/M3), JAN1999

OEL-SWITZERLAND: MAK-W 25 PPM (125 MG/M3), JAN1999
OEL IN ARGENTINA, BULGARIA, COLOMBIA, JORDAN, KOREA CHECK ACGIH TLV;
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV
NOES 1983: HZD T1998; NIS 4; TNF 495; NOS 6; TNE 12997; TFE 231
EPA TSCA SECTION 8(B) CHEMICAL INVENTORY
EPA TSCA SECTION 8(D) UNPUBLISHED HEALTH/SAFETY STUDIES
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 2001

16. OTHER INFORMATION

The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.