2,2,4-Trimethyl-1,3-pentanediol 144-19-4 MSDS

Section 1 - Chemical Product

MSDS Name:2 2 4-Trimethyl-1 3-pentanediol 96% (gc) Material Safety Data Sheet
Synonym:

Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content
144-19-4	2,2,4-trimethyl-1,3-pentanediol	96.0

Hazard Symbols: None Listed.
Risk Phrases: None Listed.

Section 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Not available.
Potential Health Effects
Eye:
May cause eye irritation.
Skin:
May cause skin irritation. Causes mild skin irritation.
Ingestion:
May cause irritation of the digestive tract. Expected to be a low ingestion hazard.
Inhalation:
May cause respiratory tract irritation.
Chronic:
No information found.

Section 4 - FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin:
Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
Ingestion:
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. Wash mouth out with water.
Inhalation:
Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:
Antidote: None reported.

Section 5 - FIRE FIGHTING MEASURES

General Information:
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Extinguishing Media:
Use agent most appropriate to extinguish fire.

Section 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:
Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

Section 7 - HANDLING and STORAGE

Handling:
Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.
Storage:
Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:
Use adequate ventilation to keep airborne concentrations low.
Exposure Limits CAS# 144-19-4: Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin:
Wear appropriate protective gloves to prevent skin exposure.
Clothing:
Wear appropriate protective clothing to prevent skin exposure.
Respirators:
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Crystalline Solid
Color: white
Odor: None reported.
pH: Not available.
Vapor Pressure: 28 mbar @ 129 C
Viscosity: 19.6 mPas 60 deg C
Boiling Point: 228.9 deg C @ 760.00mm Hg
Freezing/Melting Point: 46 - 55 deg C
Autoignition Temperature: 300 deg C (572.00 deg F)
Flash Point: 125 deg C (257.00 deg F)
Explosion Limits, lower: N/A
Explosion Limits, upper: N/A
Decomposition Temperature:
Solubility in water: soluble in alcohol, acetone, ether, benz
Specific Gravity/Density:
Molecular Formula: $C_8H_{18}O_2$
Molecular Weight: 146.23

Section 10 - STABILITY AND REACTIVITY

Chemical Stability:
Stable under normal temperatures and pressures.
Conditions to Avoid:
Incompatible materials, dust generation, strong oxidants.
Incompatibilities with Other Materials:
Oxidizing agents.
Hazardous Decomposition Products:
Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.
Hazardous Polymerization: Has not been reported.

Section 11 - TOXICOLOGICAL INFORMATION

RTECS#:
CAS# 144-19-4: SA1400000 LD50/LC50:
CAS# 144-19-4: Oral, mouse: LD50 = 2200 mg/kg; Oral, rat: LD50 = 2 gm/kg; Skin, rabbit: LD50 = 6300 uL/kg.
Carcinogenicity:
2,2,4-trimethyl-1,3-pentanediol - Not listed by ACGIH, IARC, or NTP.
Other:
See actual entry in RTECS for complete information.

Section 12 - ECOLOGICAL INFORMATION

Other No information available.

Section 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - TRANSPORT INFORMATION

IATA

Not regulated as a hazardous material.

IMO

Not regulated as a hazardous material.

RID/ADR

Not regulated as a hazardous material.

Section 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

S 28A After contact with skin, wash immediately with plenty of water.

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 144-19-4: 1

Canada

CAS# 144-19-4 is listed on Canada's DSL List.

CAS# 144-19-4 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 144-19-4 is listed on the TSCA inventory.

SECTION 16 - ADDITIONAL INFORMATION

N/A