

Material Safety Data Sheet 1,2,4-Trimethylbenzene

MSDS# 73581

Section 1 - Chemical Product and Company Identification

MSDS Name: 1,2,4-Trimethylbenzene

AC140090000, AC140090010, AC140090025, AC140090100, AC140095000 Catalog Numbers:

Synonyms: Pseudocumene.

Acros Organics BVBA Company Identification:

Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium

Acros Organics

One Reagent Lane Company Identification: (USA)

Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01 For information in Europe, call: +32 14 57 52 11 Emergency Number, Europe: +32 14 57 52 99

Emergency Number US: 201-796-7100 CHEMTREC Phone Number, US: 800-424-9300 CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#: 95-63-6

Chemical Name: 1,2,4-Trimethylbenzene

%:

EINECS#: 202-436-9

Hazard Symbols:



Risk Phrases:

XN N



10 20 36/37/38 51/53

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Flammable liquid and vapor. Harmful if inhaled. Causes eye, skin, and respiratory tract irritation. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Target Organs: Blood, central nervous system, respiratory system, eyes, skin.

Potential Health Effects

Causes eye irritation. Causes redness and pain. Eye:

Skin: Causes skin irritation. Causes redness and pain. May be harmful if absorbed through the skin.

May cause irritation of the digestive tract. Aspiration of material into the lungs may cause chemical pneumonitis, Ingestion:

which may be fatal. May be harmful if swallowed. May cause central nervous system depression.

Inhalation: Harmful if inhaled. Causes respiratory tract irritation. May cause drowsiness, unconsciousness, and central

nervous system depression.

Prolonged or repeated skin contact may cause dermatitis. May cause anemia and other blood cell abnormalities.

Chronic: Prolonged exposure may produce a narcotic effect. Prolonged or repeated exposure may cause nausea,

dizziness, and headache.

Section 4 - First Aid Measures

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower Eyes:

eyelids. Get medical aid.

Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing Skin:

contaminated clothing and shoes.

Ingestion: Do not induce vomiting. Possible aspiration hazard. Get medical aid immediately. Call a poison control center.

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is

difficult, give oxygen. Possible aspiration hazard. Do not use mouth-to-mouth resuscitation if victim ingested or Inhalation:

inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way

valve or other proper respiratory medical device.

Notes to Physician:

Section 5 - Fire Fighting Measures

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved

or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel General Information:

to a source of ignition and flash back. Will burn if involved in a fire. Containers may explode in the heat of

a fire. Flammable liquid and vapor.

Use water spray to cool fire-exposed containers. Use water spray, dry chemical, carbon dioxide, or Extinguishing

Media: chemical foam.

Autoignition 500 deg C (932.00 deg F)

Temperature:

Flash Point: 48 deg C (118.40 deg F)

Explosion 0.9 vol % Limits: Lower:

Explosion 6.4 vol % Limits: Upper:

NFPA Rating: health: 2; flammability: 2; instability: 0;

Section 6 - Accidental Release Measures

General

Use proper personal protective equipment as indicated in Section 8. Information:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Wear a self

contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Spills/Leaks:

Protection section). Remove all sources of ignition. Use a spark-proof tool. Do not let this chemical enter

the environment.

Section 7 - Handling and Storage

Use spark-proof tools and explosion proof equipment. Do not get in eyes, on skin, or on clothing. Do not ingest Handling:

or inhale. Use only in a chemical fume hood. Keep away from heat, sparks and flame.

Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-Storage:

area.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	ı	+ OSHA - Final PELs
•		 25 ppm TWA; 125 mg/m3 TWA 	none listed

OSHA Vacated PELs: 1,2,4-Trimethylbenzene: 25 ppm TWA; 125 mg/m3 TWA (listed under Trimethyl benzene) **Engineering Controls:**

Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood.

Exposure Limits

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: 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 respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Color: colorless

Odor: aromatic odor pH: Not available

Vapor Pressure: 7 mm Hg @ 44.4 deg C

Vapor Density: 4.15 (air=1)

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: 168 deg C @ 760 mmHg (334.40°F)

Freezing/Melting Point: -44 deg C (-47.20°F)

Decomposition Temperature: Not available

Solubility in water: Insoluble

Specific Gravity/Density: 0.880 g/cm³

Molecular Formula: C9H12 Molecular Weight: 120.19

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, ignition sources, excess heat.

Incompatibilities with Other Materials Strong oxidizing agents.

Hazardous Decomposition Products Carbon monoxide, carbon dioxide.

Hazardous Polymerization Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 95-63-6: DC3325000

RTECS:

CAS# 95-63-6: Inhalation, rat: LC50 = 18000 mg/m3/4H;

LD50/LC50: Oral, mouse: LD50 = 6900 mg/kg;

Oral, rat: LD50 = 5 gm/kg;

Carcinogenicity: 1,2,4-Trimethylbenzene - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Ecotoxicity: Fish: Fathead Minnow: LC50 = 77.2 mg/L; 96 Hr; Flow-through at 25 C (pH 7.24)

Other: Do not empty into drains.

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

US DOT

Shipping Name: FLAMMABLE LIQUIDS, N.O.S. (1,2,4-Trimethylbenzene)

Hazard Class: 3

UN Number: UN1993 Packing Group: III Canada TDG Shipping Name: Not available Hazard Class: UN Number: Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN N

Risk Phrases:

R 10 Flammable.

R 20 Harmful by inhalation.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 95-63-6: 3

Canada

CAS# 95-63-6 is listed on Canada's DSL List Canadian WHMIS Classifications: B3, D1B, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 95-63-6 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

CAS# 95-63-6 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 5/19/1999 Revision #6 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.
