

## Material Safety Data Sheet 1,2,4-Trimethylbenzene

MSDS# 73581

	Section 1 - Chemical Product and Company Identification
MSDS Name:	1,2,4-Trimethylbenzene
Catalog Numbers:	AC140090000, AC140090010, AC140090025, AC140090100, AC140095000
Synonyms:	Pseudocumene.
	Acros Organics BVBA

Company Identification:

Company Identification: (USA)

Fair Lawn, NJ 07410For information in the US, call:800-ACROS-01For information in Europe, call:+32 14 57 52 11Emergency Number, Europe:+32 14 57 52 99Emergency Number US:201-796-7100CHEMTREC Phone Number, US:800-424-9300CHEMTREC Phone Number, Europe:703-527-3887

Section 2 - Composition, Information on Ingredients

Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium Acros Organics

One Reagent Lane

CAS#:	95-63-6
Chemical Name:	1,2,4-Trimethylbenzene
%:	98
EINECS#:	202-436-9

Hazard Symbols:

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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

Eye:	Causes eye irritation. Causes redness and pain.	
Skin:	Causes skin irritation. Causes redness and pain. May be harmful if absorbed through the skin.	
Ingestion:	May cause irritation of the digestive tract. Aspiration of material into the lungs may cause chemical pneumonitis, 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,

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dizziness, and headache.				
Section 4 - First Aid Measures				
Eyes:	Immediately 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. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.			
Ingestion:	Do not induce vomiting. Possible aspiration hazard. Get medical aid immediately. Call a poison control center.			
Inhalation:	nhalation: 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 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			
General Information:	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 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.			
Extinguishing Media:	Use water spray to cool fire-exposed containers. Use water spray, dry chemical, carbon dioxide, or chemical foam.			
Autoignition Temperature: 500 deg C ( 932.00 deg F)				
Flash Point: 48 deg C (118.40 deg F)				
Explosion 0.9 vol % Limits: Lower:				
Explosion Limits: Upper: 6.4 vol %				
NFPA Rating: health: 2; flammability: 2; instability: 0;				
Section 6 - Accidental Release Measures				
General Information:	Use proper personal protective equipment as indicated in Section 8.			
Spills/Leaks	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 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

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

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

Section 8 - Exposure Controls, Personal Protection

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 Pro	otective Equipment			
Eyes:	Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and fac protection regulations in 29 CFR 1910.133 or European Standard EN166.			
Skin:	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 Sta	ability: Stable under normal temperatures and pressures.			
Conditions t	o Avoid: Incompatible materials, ignition sources, excess heat.			
1	lities with Other Materials Strong oxidizing agents.			
	Decomposition Products Carbon monoxide, carbon dioxide.			
Hazardous F	Polymerization Will not occur.			
	Section 11 - Toxicological Information			
RTECS#:	CAS# 95-63-6: DC3325000			
	RTECS:			
LD50/LC50	<b>CAS# 95-63-6:</b> Inhalation, rat: LC50 = 18000 mg/m3/4H; Oral, mouse: LD50 = 6900 mg/kg; Oral, rat: LD50 = 5 gm/kg;			
Carcinogeni	city: 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 i	n a manner consistent with federal, state, and local regulations.			
-	Section 14 - Transport Information			
lazard Class: 1 N Number: U acking Group	e: FLAMMABLE LIQUIDS, N.O.S. (1,2,4-Trimethylbenzene) 3 JN1993			
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.

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