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, AC1400 <br> Synonyms: Pseudocumene. |  |  |
|  |  |  |
| Company Identification: | Acros Organics BVBA <br>  <br>  <br>  <br> Janssen Pharmaceuticalaan 3a <br> 2440 Geel, Belgium |  |
| Company Identification: (USA) | Acros Organics |  |
|  | One Reagent Lane |  |
| For information in the US, call: | Fair Lawn, NJ 07410 |  |
| For information in Europe, call: | $800-A C R O S-01$ |  |
| Emergency Number, Europe: | +3214575211 |  |
| Emergency Number US: | +3214575299 |  |
| CHEMTREC Phone Number, US: | $201-796-7100$ |  |
| CHEMTREC Phone Number, Europe: | $800-424-9300$ |  |
|  | $703-527-3887$ |  |

Section 2 - Composition, Information on Ingredients

CAS\#:
Chemical Name:
\%:
EINECS\#:

Hazard Symbols:


Risk Phrases:

95-63-6
1,2,4-Trimethylbenzene
98
202-436-9

XN N


1020 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.
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.
Ingestion:
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,

## Section 4 - First Aid Measures

Eyes:

Skin:
Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
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. 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 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 General or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel 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.Extinguishing Use water spray to cool fire-exposed containers. Use water spray, dry chemical, carbon dioxide, or
Media: chemical foam.
Autoignition
Temperature:
$500 \operatorname{deg} \mathrm{C}(932.00 \operatorname{deg} \mathrm{~F})$
Flash Point: 48 deg C ( 118.40 deg F)
Explosion
Limits: Lower: 0.9 vol \%
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 .
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.

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

Section 8 - Exposure Controls, Personal Protection


OSHA Vacated PELs: 1,2,4-Trimethylbenzene: 25 ppm TWA; $125 \mathrm{mg} / \mathrm{m3}$ 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: $7 \mathrm{~mm} \mathrm{Hg} @ 44.4$ deg C
Vapor Density: 4.15 (air=1)
Evaporation Rate: Not available
Viscosity: Not available
Boiling Point: 168 deg C @ $760 \mathrm{mmHg}\left(334.40^{\circ} \mathrm{F}\right)$
Freezing/Melting Point: $-44 \operatorname{deg} \mathrm{C}\left(-47.20^{\circ} \mathrm{F}\right)$
Decomposition Temperature: Not available
Solubility in water: Insoluble
Specific Gravity/Density: $0.880 \mathrm{~g} / \mathrm{cm} 3$
Molecular Formula: C9H12
Molecular Weight: 120.19
Section 10 - Stability and Reactivity

Chemical Stability:
Conditions to Avoid:
Incompatibilities with Other Materials
Hazardous Decomposition Products
Hazardous Polymerization

Stable under normal temperatures and pressures.
Incompatible materials, ignition sources, excess heat.
Strong oxidizing agents.
Carbon monoxide, carbon dioxide.
Will not occur.

Section 11 - Toxicological Information
RTECS\#: CAS\# 95-63-6: DC3325000
RTECS:
CAS\# 95-63-6: Inhalation, rat: LC50 $=18000 \mathrm{mg} / \mathrm{m} 3 / 4 \mathrm{H}$;
LD50/LC50: Oral, mouse: LD50 $=6900 \mathrm{mg} / \mathrm{kg}$;
Oral, rat: LD50 $=5 \mathrm{gm} / \mathrm{kg}$;

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 $=77.2 \mathrm{mg} / \mathrm{L} ; 96 \mathrm{Hr}$; Flow-through at $25 \mathrm{C}(\mathrm{pH} 7.24)$
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.

