Material Safety Data Sheet
1,3-Dichloropropane, 99%

MSDS# 68661

Section 1 - Chemical Product and Company Identification

MSDS Name: 1,3-Dichloropropane, 99%
Catalog Numbers: AC113680000, AC113680500, AC113682500
Synonyms:

Company Identification:
Acros Organics BVBA
Janssen Pharmaceuticalaan 3a
2440 Geel, Belgium

Company Identification: (USA)
Acros Organics
One Reagent Lane
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#: 142-28-9
Chemical Name: 1,3-Dichloropropane
%: 99.0
EINECS#: 205-531-3

Hazard Symbols: F
Risk Phrases: 11

Section 3 - Hazards Identification

Warning! Flammable liquid and vapor. Causes respiratory tract irritation. The toxicological properties of this material have not been fully investigated. Causes eye and skin irritation. Target Organs: None known.

Potential Health Effects

Eye: Causes eye irritation. Vapors cause eye irritation.
Skin: Causes skin irritation. Prolonged exposure may cause a smarting and reddening of the skin.
Ingestion: The toxicological properties of this substance have not been fully investigated.
Inhalation: Causes respiratory tract irritation.
Chronic:

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

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. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire. Flammable liquid and vapor. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.
Extinguishing Media: Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water. For large fires, use water spray, fog or regular foam. For small fires, use dry chemical, carbon dioxide, water spray or regular foam.

Autoignition Temperature: 480 deg C ( 896.00 deg F)
Flash Point: 21.1 deg C ( 69.98 deg F)
Explosion Limits: Lower: 3.4
Explosion Limits: Upper: 14.5
NFPA Rating: NFPA Rating:

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. Remove all sources of ignition. Use a spark-proof tool. A vapor suppressing foam may be used to reduce vapors.

Section 7 - Handling and Storage
Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Ground and bond containers when transferring material. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from 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. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-Dichloropropane</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
</tbody>
</table>

OSHA Vacated PELs: 1,3-Dichloropropane: None listed

Engineering Controls:
Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

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.
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a
Respirators: 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: Liquid
Color: clear, colorless
Odor: sweetish odor
pH: Not available
Vapor Pressure: 20 mbar @ 20 deg C
Vapor Density: Not available
Evaporation Rate: Not available
Viscosity: 1.1 mPas 20 deg C
Boiling Point: 120 - 122 deg C @ 760.00mm Hg
Freezing/Melting Point: -99 deg C (-146.20°F)
Decomposition Temperature: Not available
Solubility in water: IN WATER: 0.8 G/L (20°C)
Specific Gravity/Density: 1.1900g/cm3
Molecular Formula: C3H6Cl2
Molecular Weight: 112.99

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 Not available
Hazardous Decomposition Products Hydrogen chloride, phosgene, carbon monoxide, carbon dioxide.
Hazardous Polymerization Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 142-28-9: TX9660000
LD50/LC50: RTECS: Not available.
Carcinogenicity: 1,3-Dichloropropane - 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: Not available

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.
Hazard Class: 3
UN Number: UN1993
Packing Group: II
Canada TDG
Shipping Name: Not available
Hazard Class: 
UN Number: 
Packing Group: 

USA RQ: CAS# 142-28-9: 1000 lb final RQ (listed under Dichloropropane); 454 kg final RQ (li

Section 15 - Regulatory Information

European/International Regulations
European/International Regulations

Hazard Symbols: F
Risk Phrases:
R 11 Highly flammable.
Safety Phrases:
S 9 Keep container in a well-ventilated place.
S 16 Keep away from sources of ignition - No smoking.
S 24 Avoid contact with skin.
S 29 Do not empty into drains.
S 33 Take precautionary measures against static discharges.

WGK (Water Danger/Protection)
CAS# 142-28-9: 3

Canada
CAS# 142-28-9 is listed on Canada's NDSL List
Canadian WHMIS Classifications: Not available
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# 142-28-9 is not listed on Canada's Ingredient Disclosure List.

US Federal
TSCA
CAS# 142-28-9 is listed on the TSCA Inventory.

Section 16 - Other Information
MSDS Creation Date: 9/02/1997
Revision #6 Date 7/20/2009

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