Material Safety Data Sheet
1-Chloropropane, 99%

MSDS# 71661

Section 1 - Chemical Product and Company Identification

MSDS Name: 1-Chloropropane, 99%
Catalog Numbers: AC109950000, AC109950050, AC109951000
Synonyms: n-Propyl chloride

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
CHEMTREC Phone Number, US:
800-424-9300
CHEMTREC Phone Number, Europe:
703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#:
540-54-5
Chemical Name:
1-CHLOROPROPANE
%
99%
EINECS#:
208-749-7

Hazard Symbols:
XN F

Risk Phrases:
11 20/21/22

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Flammable liquid and vapor. May cause central nervous system depression. May cause eye, skin, and respiratory tract irritation. Target Organs: Central nervous system.

Potential Health Effects
Eye: May cause eye irritation.
Skin: May cause skin irritation.
Ingestion: May cause irritation of the digestive tract.
Inhalation: Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. May cause 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.

Skin: Get medical aid if irritation develops or persists. Flush skin with plenty of soap and water.

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.

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

Get medical aid. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool.

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers.

Autoignition Temperature: 520 deg C ( 968.00 deg F)
Flash Point: -18 deg C (-0.40 deg F)
Explosion Limits: Lower: 2.60 vol %
Explosion Limits: Upper: 10.50 vol %
NFPA Rating: 2 - health, 3 - flammability, 0 - instability

Section 6 - Accidental Release Measures

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. Avoid runoff into storm sewers and ditches which lead to waterways. Remove all sources of ignition.

Section 7 - Handling and Storage

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.

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. Refrigerator/flammables.

Section 8 - Exposure Controls, Personal Protection

OSHA Vacated PELs: 1-CHLOROPROPANE: 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: Chloroform-like odor
pH: Not available
Vapor Pressure: 1 mm Hg @68.3C
Vapor Density: 2.7
Evaporation Rate: Not available
Viscosity: Not available
Boiling Point: 46 - 47 deg C @ 760.00mm Hg
Freezing/Melting Point: -123 deg C ( -189.40°F)
Decomposition Temperature: Not available
Solubility in water: 2.7 G/L (20°C)
Specific Gravity/Density: .8920g/cm3
Molecular Formula: C3H7Cl
Molecular Weight: 78.54

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, carbon monoxide, carbon dioxide.
Hazardous Polymerization Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 540-54-5: TX4400000
LD50/LC50: CAS# 540-54-5: Oral, rat: LD50 = >2 gm/kg;
Carcinogenicity: 1-CHLOROPROPANE - 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

Other: No information 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: 1-CHLOROPROPANE
Hazard Class: 3
UN Number: UN1278
Packing Group: II
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 F

Risk Phrases:
   R 11 Highly flammable.
   R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

Safety Phrases:
   S 9 Keep container in a well-ventilated place.
   S 29 Do not empty into drains.

WGK (Water Danger/Protection)
   CAS# 540-54-5: 2

Canada
   CAS# 540-54-5 is listed on Canada's DSL 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# 540-54-5 is not listed on Canada's Ingredient Disclosure List.

US Federal
TSCA
   CAS# 540-54-5 is listed on the TSCA
   Inventory.

Section 16 - Other Information
MSDS Creation Date: 9/02/1997
Revision #5 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 merchantability or any other warranty, express or implied,
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their own investigations to determine the suitability of the information for their particular purposes. In no
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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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