

Material Safety Data Sheet

1,3-Dichlorobenzene, 98%

ACC# 62847

Section 1 - Chemical Product and Company Identification

MSDS Name: 1,3-Dichlorobenzene, 98%

Catalog Numbers: AC151180000, AC151180010, AC151180050, AC151180250, AC151181000, AC151182500 AC151182500, AC151185000

Synonyms: m-Dichlorobenzene; Benzene, 1,3-dichloro-; m-Phenylenedichloride

Company Identification:

Acros Organics N.V.
One Reagent Lane
Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01

For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
541-73-1	1,3-Dichlorobenzene	98	208-792-1

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: Clear - Colorless Liquid. Flash Point: 67 deg C.

Warning! Harmful if swallowed. Causes eye and skin irritation. **Combustible liquid and vapor.** May be absorbed through intact skin. Causes digestive and respiratory tract irritation.

Target Organs: Kidneys, liver.

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation. May be absorbed through the skin.

Ingestion: Harmful if swallowed. Causes gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: Causes respiratory tract irritation.

Chronic: Chronic exposure may cause liver damage. Chronic exposure may cause kidney damage.

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 immediately. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Do not induce vomiting. 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 breathing is difficult, give oxygen. Get medical aid. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Notes to Physician: Treat symptomatically and supportively.

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. Water runoff can cause environmental damage. Dike and collect water used to fight fire. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Combustible liquid. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Containers may explode when heated.

Extinguishing Media: Do NOT get water inside containers. For small fires, use dry chemical, carbon dioxide, or water spray. For large fires, use dry chemical, carbon dioxide, alcohol-resistant foam, or water spray. Cool containers with flooding quantities of water until well after fire is out.

Flash Point: 67 deg C (152.60 deg F)

Autoignition Temperature: 640 deg C (1,184.00 deg F)

Explosion Limits, Lower:Not available.

Upper: Not available.

NFPA Rating: (estimated) 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: Avoid runoff into storm sewers and ditches which lead to waterways. Remove all sources of ignition. Provide ventilation.

Cover with dry earth, dry sand, or other non-combustible material followed with plastic sheet to minimize spreading and contact with water. Stop leak only if you can do so without risk.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. 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. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
1,3-Dichlorobenzene	none listed	none listed	none listed

OSHA Vacated PELs: 1,3-Dichlorobenzene: No OSHA Vacated PELs are listed for this chemical.

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: Liquid

Appearance: Clear - Colorless Liquid

Odor: None reported.

pH: Not available.

Vapor Pressure: 1.8 hPa @ 20 C

Vapor Density: 5.07

Evaporation Rate: Not available.

Viscosity: 1.045 cP 23 deg C

Boiling Point: 172.0 - 173.0 deg C @ 760.00m

Freezing/Melting Point: -24 deg C

Decomposition Temperature: > 300 deg C

Solubility: Insoluble.

Specific Gravity/Density: 1.2880g/cm³

Molecular Formula: C₆H₄Cl₂

Molecular Weight: 147.00

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, aluminum.

Hazardous Decomposition Products: Hydrogen chloride, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 541-73-1: CZ4499000

LD50/LC50:

Not available.

intraperitoneal, mouse: LD50 = 1062 mg/kg.; Oral, rat: TDLo = 1470 mg/kg/10D-I.; Oral, rat: TDLo = 3330 mg/kg/90D-I.; CAS# 106-46-7 Oral, rat LD50 = 500 mg/kg.; Dermal, rat: LD50 = >2gm/kg. The toxicity of this product is partially based on the hazards associated with

Carcinogenicity:

CAS# 541-73-1: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information.

Teratogenicity: No data available.

Reproductive Effects: No information.

Mutagenicity: Gene conversion and mitotic recombination: *Saccharomyces cerevisiae* =5ppm; Micronucleus test-Intraperitoneal, mouse = 175 mg/kg/24H.

Neurotoxicity: No information.

Other Studies:

Section 12 - Ecological Information

Ecotoxicity: Fish: Fathead Minnow: 12.7 mg/L; 96 Hr; Static Bioassay Experimental BCF Values of 89-740 reported, and 1,3-Dichlorobenzene was detected in trout in Lake Ontario. Koc values of 12600-31600 calculated from sediment/water monitoring data in Great Lakes Area. An experimental Koc value of 293 was calculated in a silt loam soil containing 1.9% organic matter. 1,3-Dichlorobenzene can be moderately to highly absorbed to soil. Leaching can occur.

Environmental: No information available.

Physical: No information available.

Other: No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series:

CAS# 541-73-1: waste number U071.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	TOXIC LIQUIDS, ORGANIC, N.O.S.	TOXIC LIQUID ORGANIC NOS (1,3 - DICHLOROBENZENE)
Hazard Class:	6.1	6.1
UN Number:	UN2810	UN2810
Packing Group:	III	III

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 541-73-1 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

CAS# 541-73-1: 100 lb final RQ; 45.4 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 541-73-1: immediate, delayed, fire.

Section 313

This material contains 1,3-Dichlorobenzene (CAS# 541-73-1, 98%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. CAS# 541-73-1 is listed as a Priority Pollutant under the Clean Water Act. CAS# 541-73-1 is listed as a Toxic Pollutant under the Clean Water Act.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 541-73-1 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

XN N

Risk Phrases:

R 22 Harmful if swallowed.

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

Safety Phrases:

S 61 Avoid release to the environment. Refer to special instructions

/safety data sheets.

WGK (Water Danger/Protection)

CAS# 541-73-1: 2

Canada - DSL/NDSL

CAS# 541-73-1 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of B3, D1B, D2A.

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.

Canadian Ingredient Disclosure List

CAS# 541-73-1 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information
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MSDS Creation Date: 11/03/1998

Revision #4 Date: 10/03/2005

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, 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 Fisher 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 Fisher has been advised of the possibility of such damages.