

# Material Safety Data Sheet

## Chloroform-d, stabilized with silver foil, 99.8 atom% D

ACC# 03014

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Chloroform-d, stabilized with silver foil, 99.8 atom% D  
**Catalog Numbers:** AC351420000, AC351420250, AC351421000, AC351425000

**Synonyms:**

**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
865-49-6	Chloroform-d		212-742-4

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Appearance: colorless clear liquid.  
Light sensitive. Hygroscopic (absorbs moisture from the air).  
**Target Organs:** Kidneys, heart, central nervous system, liver.

#### Potential Health Effects

**Eye:** Vapors may cause eye irritation. Contact produces irritation, tearing, and burning pain. May cause conjunctivitis. Causes redness and pain.

**Skin:** Prolonged and/or repeated contact may cause irritation and/or dermatitis. May cause severe skin irritation with possible burns, especially if skin is wet or moist. Causes redness and pain.

**Ingestion:** Harmful if swallowed. May cause central nervous system depression, kidney damage, and liver damage. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause cardiac disturbances.

**Inhalation:** Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. Causes respiratory tract irritation. May cause liver and kidney damage. May cause cardiac sensitization and possible failure. May cause narcotic effects in high concentration.

**Chronic:** Possible cancer hazard based on tests with laboratory animals. Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated exposure may cause adverse reproductive effects. May cause liver and kidney damage. Toxicity may be increased by exposure to alcohol, steroids, and ketones. Chronic exposure to chloroform has been associated with an increased incidence of kidney, liver, rectal, bladder, colon, brain and lymph node cancer. Animal studies have shown fetal loss, delays in fetal development and cleft

### 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 immediately. Do NOT allow victim to rub eyes or keep eyes closed.

**Skin:** Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Wash mouth out with water.

**Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Notes to Physician:** Chloroform sensitizes the heart to endogenous catecholamines.

### Section 5 - Fire Fighting Measures

**General Information:** Use extinguishing media appropriate to the surrounding fire. Substance is noncombustible.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.

**Flash Point:** Not available.

**Autoignition Temperature:** 982 deg C ( 1,799.60 deg F )

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

**NFPA Rating:** Not published.

### 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.

## Section 7 - Handling and Storage

**Handling:** Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

**Storage:** Store in a cool, dry place. Store in a tightly closed container. Store under an inert atmosphere.

## 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.

**Exposure Limits**

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Chloroform-d	none listed	none listed	none listed

**OSHA Vacated PELs:** Chloroform-d: No OSHA Vacated PELs are listed for this chemical.

**Personal Protective Equipment**

**Eyes:** Not available.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a 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:** Clear liquid

**Appearance:** colorless

**Odor:** Not available.

**pH:** Not available.

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** 60.8 deg C @ 760.00mm Hg

**Freezing/Melting Point:** -64 deg C

**Decomposition Temperature:** Not available.

**Solubility:** 8.2 G/L (20°C)

**Specific Gravity/Density:** 1.5000

**Molecular Formula:** CDCl<sub>3</sub>

**Molecular Weight:** 120.39

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Conditions to Avoid:** High temperatures, incompatible materials, light, moisture.

**Incompatibilities with Other Materials:** Strong oxidizing agents, bases, alcohols, aluminum, fluorine, magnesium, sodium hydroxide, potassium, lithium, methyl alcohol, sodium, caustics (e.g. ammonia, ammonium hydroxide, calcium hydroxide, potassium hydroxide, sodium hydroxide), ketones (e.g. acetone, acetophenone, MEK, MIBK), acetone, dinitrogen tetraoxide, potassium hydroxide, perchloric acid, potassium-tert-butoxide, phosphorus pentoxide, sodium potassium alloys, calcium hydroxide.

**Hazardous Decomposition Products:** Hydrogen chloride, carbon monoxide, carbon dioxide, chlorine, phosgene gas.

**Hazardous Polymerization:** Will not occur.

## Section 11 - Toxicological Information

**RTECS#:**

**CAS#:** 865-49-6 unlisted.

**LD50/LC50:**

Not available.

**Carcinogenicity:**

CAS# 865-49-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No data available.

**Teratogenicity:** CAS# 67-66-3: Embryo or Fetus: Death, Ihl-rat, TC<sub>Lo</sub>=20100 ug/m<sup>3</sup>/1H (female 7-14D post); Stunted fetus, Oral-rat, TD<sub>Lo</sub>=1260 mg/kg (6-15D preg) Developmental abnormalities: Craniofacial, Ihl-mouse, TC<sub>Lo</sub>=100 ppm/7H (female 6-15D post); Musculoskeletal, Oral-rat, TD<sub>Lo</sub>=1260 mg/kg (6-15D preg)

**Reproductive Effects:** No data available.

**Mutagenicity:** No data available.

**Neurotoxicity:** No data available.

**Other Studies:**

## Section 12 - Ecological Information

**Ecotoxicity:** No data available. Toxic to Daphnia: >1000 mg/l Fish-toxicity: 162 mg/l

**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:** None listed.

## Section 14 - Transport Information

	<b>US DOT</b>	<b>Canada TDG</b>
<b>Shipping Name:</b>	CHLOROFORM	No information available.
<b>Hazard Class:</b>	6.1	
<b>UN Number:</b>	UN1888	
<b>Packing Group:</b>	III	

## Section 15 - Regulatory Information

### US FEDERAL

#### TSCA

CAS# 865-49-6 is not listed on the TSCA inventory. It is for research and development use only.

#### 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

None of the chemicals in this material have an RQ.

#### SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

#### Section 313

No chemicals are reportable under Section 313.

#### 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.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

#### OSHA:

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

#### STATE

CAS# 865-49-6 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

#### 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

##### Risk Phrases:

R 22 Harmful if swallowed.

R 38 Irritating to skin.

R 40 Limited evidence of a carcinogenic effect.

R 48/20/22 Harmful : danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

##### Safety Phrases:

S 36/37 Wear suitable protective clothing and gloves.

#### WGK (Water Danger/Protection)

CAS# 865-49-6: No information available.

#### Canada - DSL/NDSL

CAS# 865-49-6 is listed on Canada's DSL List.

#### Canada - WHMIS

WHMIS: Not available.

**Canadian Ingredient Disclosure List**

**Section 16 - Additional Information**

**MSDS Creation Date:** 1/16/2002

**Revision #1 Date:** 10/05/2004

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