

MATERIAL SAFETY DATA SHEET  
Chloroform-d

Section 1 - Chemical Product and Company Identification

<b>MSDS Name:</b>	Chloroform-d		
<b>Catalog Numbers:</b>	16625-0000, 16625-0250, 16625-0500, 16625-1000, 16625-2500, 16625-5000, 16626-0000, 16626-0250, 16626-0500, 16626-1000, 16626-2500, 16627-0000, 16627-0100, 16627-0500, 16627-1000, 17488-0000, 17488-1000, 17488-5000, 20956-0000, 20956-0250, 20956-1000, 20956-5000, 21731-0000, 21731-0100, 21732-0000, 21732-0050, 32068-0000, 32068-0075, 32069-0000, 32069-0075, 35142-0000, 35142-0250, 35142-1000, 35142-5000, 36865-0000, 36865-1000, 36865-5000, 36898-0000, 36898-1000, 36898-5000		
<b>Synonyms:</b>			
<b>Company Identification:</b>	Acros Organics BVBA Janssen Pharmaceuticaaan 3a 2440 Geel, Belgium		
<b>Company Identification: (USA)</b>	Acros Organics One Reagent Lane Fair Lawn, NJ 07410		
<b>For information in the US, call:</b>	800-ACROS-01		
<b>For information in Europe, call:</b>	+32 14 57 52 11		
<b>Emergency Number, Europe:</b>	+32 14 57 52 99		
<b>Emergency Number US:</b>	201-796-7100		
<b>CHEMTREC Phone Number, US:</b>	800-424-9300		
<b>CHEMTREC Phone Number, Europe:</b>	703-527-3887		

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
865-49-6	Chloroform-d	>99%	212-742-4

**Hazard Symbols:** XN



**Risk Phrases:** 22 38 40 48/20/22

Section 3 - Hazards Identification

**EMERGENCY OVERVIEW**

*Harmful if swallowed. Irritating to skin. Limited evidence of a carcinogenic effect. Harmful : danger of serious damage to health by prolonged exposure through inhalation and if swallowed. Light sensitive. Hygroscopic (absorbs moisture from the air).*

**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.

#### 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:** Get medical aid immediately. 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:

#### 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.

#### 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. Use only in a chemical fume hood.
- 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

CAS# 865-49-6:

##### Personal Protective Equipment

- Eyes:** Wear chemical splash goggles.
- 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
- Color:** colorless
- Odor:** sweetish odor
- pH:** Not available
- Vapor Pressure:** Not available
- Viscosity:** Not available
- Boiling Point:** 60.8 deg C @760mmHg ( 141.44°F)
- Freezing/Melting Point:** -64 deg C ( -83.20°F)
- Autoignition Temperature:** 982 deg C ( 1,799.60 deg F)
- Flash Point:** Not available
- Explosion Limits: Lower:** Not available
- Explosion Limits: Upper:** Not available
- Decomposition Temperature:** Not available
- Solubility in water:** 8.2 g/l (20°C)
- Specific Gravity/Density:** 1.500
- Molecular Formula:** CCl<sub>3</sub>D
- Molecular Weight:** 120.39

## Section 10 - Stability and Reactivity

- Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions. May decompose when exposed to light. Hygroscopic: absorbs moisture or water from the air.
- 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 tetroxide, 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: None listed
- LD50/LC50:** RTECS: Not available. Other: CAS 67-66-3: Oral, rat: LD50 = 908 mg/kg Oral, mouse: LD50 = 36 mg/kg Inhalation, rat: LC50 = 47702 mg/m<sup>3</sup>/4H Skin, rabbit: LD50 > 20 gm/kg Eye, rabbit: 20 mg/24H moderate Skin, rabbit: 500 mg/24H mild Skin, rabbit: 10 mg/24H open mild
- Carcinogenicity:** Chloroform-d - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Other:** Mutagenicity: Ames-test: negative.

### Section 12 - Ecological Information

**Ecotoxicity:** Fish: Fathead Minnow: LC50: 71 mg/L; 96h; .  
Fish: Bluegill/Sunfish: LC50: 18 mg/L; 96h; .  
Fish: Rainbow trout: LC50: 18 mg/L; 96h; .  
Daphnia: Daphnia: EC50: 79 mg/L; 48h; .

**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

	<b>IATA</b>	<b>IMO</b>	<b>RID/ADR</b>
<b>Shipping Name:</b>	CHLOROFORM	CHLOROFORM	CHLOROFORM
<b>Hazard Class:</b>	6.1	6.1	6.1
<b>UN Number:</b>	1888	1888	1888
<b>Packing Group:</b>	III	III	III

### Section 15 - Regulatory Information

#### 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: Not available

Canada

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

#### US Federal

TSCA

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

### Section 16 - Other Information

**MSDS Creation Date:** 7/16/1996

**Revision #3 Date** 6/13/2005

**Revisions were made in Sections:** General revision.

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