

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/01/2015 Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture

Product name : Silver Diethyldithiocarbamate, 0.3% in Chloroform

Product code : LC22430

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : For laboratory and manufacturing use only.

#### 1.3. Details of the supplier of the safety data sheet

LabChem Inc

Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court

Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification (GHS-US)

Acute Tox. 3 (Oral) H301 Skin Irrit. 2 H315 Eye Irrit. 2A H319 Carc. 2 H351 Aquatic Acute 2 H401

Full text of H-phrases: see section 16

## 2.2. Label elements

### **GHS-US** labeling

Hazard pictograms (GHS-US)



 $\Diamond$ 

GHS07



GHS06

HS06

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H301 - Toxic if swallowed H315 - Causes skin irritation

H319 - Causes serious eye irritation

H351 - Suspected of causing cancer (Inhalation)

H401 - Toxic to aquatic life

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P264 - Wash exposed skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release to the environment

P280 - Wear protective gloves, protective clothing, eye protection, face protection P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P308+P313 - IF exposed or concerned: Get medical advice/attention

P330 - If swallowed, rinse mouth

P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse

P405 - Store locked up

P501 - Dispose of contents/container to comply with local, state and federal regulations

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#### 2.3. Other hazards

Other hazards not contributing to the classification

: None under normal conditions.

## 2.4. Unknown acute toxicity (GHS-US)

Not applicable

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Chloroform	(CAS No) 67-66-3	98.7	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 2, H401
Morpholine	(CAS No) 110-91-8	1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402
Silver Diethyldithiocarbamate, ACS	(CAS No) 1470-61-7	0.3	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of H-phrases: see section 16

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Suspected of causing cancer (Inhalation).

First-aid measures after inhalation

: Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact

: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion

: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

## 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Suspected of causing cancer.

Symptoms/injuries after inhalation : Dizziness. Nausea.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion

Toxic if swallowed. Swallowing a small quantity of this material will result in serious health

hazard.

Chronic symptoms : Central nervous system depression.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Obtain medical assistance.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

## 5.2. Special hazards arising from the substance or mixture

No additional information available

## 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

: Safety glasses. Protective clothing. Gloves. Face-shield. Combined gas/dust mask with filter Protective equipment

type A/P3.

**Emergency procedures** : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Ventilate area. **Emergency procedures** 

#### **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

#### Reference to other sections

See Heading 8. Exposure controls and personal protection.

### **SECTION 7: Handling and storage**

#### Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or Precautions for safe handling

smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have

been read and understood.

Hygiene measures Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after

handling.

#### Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources... Ignition sources, Direct sunlight. Keep container closed when not in use. Protect from sunlight.

Refrigerate.

Incompatible products Strong oxidizers.

Sources of ignition. Direct sunlight. Incompatible materials

## Specific end use(s)

No additional information available

## **SECTION 8: Exposure controls/personal protection**

### **Control parameters**

Silver Diethyldithiocarbamate, 0.3% in Chloroform	
ACGIH	Not applicable
OSHA	Not applicable

Silver Diethyldithiocarbamate, ACS (1470-61-7)		
ACGIH	ACGIH TWA (mg/m³)	0.01 mg/m³ as Ag
OSHA	OSHA PEL (TWA) (mg/m³)	0.01 mg/m³

Morpholine (110-91-8)		
ACGIH	ACGIH TWA (mg/m³)	71 mg/m³
ACGIH	ACGIH TWA (ppm)	20 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	70 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	20 ppm

Chloroform (67-66-3)		
ACGIH	ACGIH TWA (ppm)	10 ppm
OSHA	OSHA PEL (Ceiling) (mg/m³)	240 mg/m³
OSHA	OSHA PEL (Ceiling) (ppm)	50 ppm

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#### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.
Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

### **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid Color Colorless Odor chloroform-like Odor threshold : No data available No data available рΗ No data available Melting point Freezing point No data available Boiling point No data available Flash point : No data available Relative evaporation rate (butyl acetate=1) : No data available : No data available Flammability (solid, gas) **Explosion limits** : No data available : No data available Explosive properties Oxidizing properties : No data available No data available Vapor pressure Relative density No data available Relative vapor density at 20 °C : No data available

Solubility : Poorly soluble in water.

Water: Solubility in water of component(s) of the mixture :

• Chloroform: 0.80 g/100ml

Log Pow : No data available
Log Kow : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available

## 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Refrigeration enhances stability.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong oxidizers.

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#### 10.6. Hazardous decomposition products

Chlorine. Carbon monoxide. Carbon dioxide. Sulfur compounds.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Likely routes of exposure : Inhalation; Skin and eye contact

Acute toxicity : Oral: Toxic if swallowed.

Silver Diethyldithiocarbamate, 0.3% in Chloroform	
ATE US (oral)	100.000 mg/kg body weight

Morpholine (110-91-8)	
LD50 oral rat	1050 mg/kg
LD50 dermal rabbit	310 mg/kg
ATE US (oral)	1050.000 mg/kg body weight
ATE US (dermal)	310.000 mg/kg body weight

Chloroform (67-66-3)	
LD50 oral rat	695 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 908 mg/kg bodyweight; Rat; OECD 401: Acute Oral Toxicity; Experimental value; 1117 mg/kg bodyweight; Rat)
LD50 dermal rabbit	> 20000 mg/kg (Rabbit; Experimental value; >3980 mg/kg bodyweight; Rabbit)
LC50 inhalation rat (mg/l)	48 mg/l/4h (Rat; Literature study)
ATE US (oral)	695.000 mg/kg body weight
ATE US (vapors)	48.000 mg/l/4h
ATE US (dust, mist)	48.000 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer (Inhalation).

## Chloroform (67-66-3)

IARC group 2B - Possibly carcinogenic to humans

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met. Toxic if swallowed.

Symptoms/injuries after inhalation : Dizziness. Nausea.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : Toxic if swallowed. Swallowing a small quantity of this material will result in serious health

hazard.

Chronic symptoms : Central nervous system depression.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Ecology - water : Toxic to aquatic life.

Morpholine (110-91-8)	
LC50 fish 1	350 mg/l
EC50 Daphnia 1	100 mg/l
EC50 other aquatic organisms 1	28 mg/l 96 hr. Algae

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Morpholine (110-91-8)	
LC50 fish 2	375 - 460 mg/l
Chloroform (67-66-3)	
LC50 fish 1	18.2 ppm (96 h; Oncorhynchus mykiss)
EC50 Daphnia 1	6.3 mg/l (504 h; Daphnia magna; Reproduction)
LC50 fish 2	43.8 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
Threshold limit algae 1	185 mg/l (Microcystis aeruginosa; Toxicity test)
Threshold limit algae 2	1100 mg/l (Scenedesmus quadricauda; Toxicity test)

## 12.2. Persistence and degradability

Silver Diethyldithiocarbamate, 0.3% in Chloroform			
Persistence and degradability	Not established.		
Silver Diethyldithiocarbamate, ACS (1470-61-	Silver Diethyldithiocarbamate, ACS (1470-61-7)		
Persistence and degradability	Not established.		
Morpholine (110-91-8)			
Persistence and degradability	Readily biodegradable in water. Not established.		
Chloroform (67-66-3)			
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil.		
ThOD	0.33 - 1.35 g O₂/g substance		
BOD (% of ThOD)	0.015 - 0.06 % ThOD		

#### 12.3. Bioaccumulative potential

Silver Diethyldithiocarbamate, 0.3% in Chloroform		
Bioaccumulative potential	Not established.	
Silver Diethyldithiocarbamate, ACS (1470-61-7)		
Bioaccumulative potential	Not established.	
Morpholine (110-91-8)		
Log Pow	-2.55	
Bioaccumulative potential	Not established.	
Chloroform (67-66-3)		
BCF fish 1	6 (336 h; Lepomis macrochirus)	
BCF fish 2	1.4 - 4.7 (42 days; Cyprinus carpio)	
BCF other aquatic organisms 1	224 (Pecten maximus; Mantle, dry weight)	
BCF other aquatic organisms 2	438 (Modiolus modiolus; Mantle, dry weight)	
Log Pow	1.97 (Experimental value; 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	

## 12.4. Mobility in soil

Chloroform (67-66-3)		
Surface tension	0.0271 N/m (20 °C)	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.	

## 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to comply with local, state and federal regulations.

Ecology - waste materials : Avoid release to the environment. Hazardous waste due to toxicity.

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## **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

Transport document description : UN1888 Chloroform, 6.1, III

UN-No.(DOT) : UN1888
Proper Shipping Name (DOT) : Chloroform

Transport hazard class(es) (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132

Hazard labels (DOT) : 6.1 - Poison inhalation hazard



Packing group (DOT) : III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241
DOT Special Provisions (49 CFR 172.102) : IB3

: IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table

2 for UN2672).

N36 - Aluminum or aluminum alloy construction materials are permitted only for halogenated hydrocarbons that will not react with aluminum.

T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C

(59 F) and 50 C (122 F), respectively.

DOT Packaging Exceptions (49 CFR 173.xxx) : 153
DOT Quantity Limitations Passenger aircraft/rail : 60 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

**Additional information** 

Other information : No supplementary information available.

#### **ADR**

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

#### SECTION 15: Regulatory information

## 15.1. US Federal regulations

Silver Diethyldithiocarbamate, 0.3% in Chloroform	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
	Delayed (chronic) health hazard

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Chloroform	CAS No 67-66-3	98.7
Silver Diethyldithiocarbamate, ACS (1470-61-7)		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
Morpholine (110-91-8)		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard	
Chloroform (67-66-3)		
Listed on United States SARA Section 313		
RQ (Reportable quantity, section 304 of EPA's List of Lists)	10 lb	
SARA Section 313 - Emission Reporting	0.1 %	

#### 15.2. International regulations

#### **CANADA**

Silver Diethyldithiocarbamate, ACS (1470-61-7)		
Listed on the Canadian DSL (Domestic Substances List)		
Morpholine (110-91-8)		
Listed on the Canadian DSL (Domestic Substances List)		
WHMIS Classification	Class B Division 3 - Combustible Liquid Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class E - Corrosive Material	
Chloroform (67-66-3)		
Listed on the Canadian DSL (Domestic Substan	ces List)	
WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects	

## **EU-Regulations**

No additional information available

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

## **National regulations**

Morpholine (110-91-8)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
Chloroform (67-66-3)	
Listed on the Canadian IDL (Ingredient Disclosure List)	

#### 15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

Chloroform (67-66-3)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	20 μg/day

## **SECTION 16: Other information**

Other information	: None.
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Full text of H-phrases: see section 16:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3	
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4	
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2	
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3	
Carc. 2	Carcinogenicity Category 2	
Eye Dam. 1	Serious eye damage/eye irritation Category 1	
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A	
Flam. Liq. 3	Flammable liquids Category 3	
Skin Corr. 1A	Skin corrosion/irritation Category 1A	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H226	Flammable liquid and vapor	
H301	Toxic if swallowed	
H302	Harmful if swallowed	
H311	Toxic in contact with skin	
H314	Causes severe skin burns and eye damage	
H315	Causes skin irritation	
H318	Causes serious eye damage	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	
H351	Suspected of causing cancer	
H401	Toxic to aquatic life	
H402	Harmful to aquatic life	

NFPA health hazard

: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt

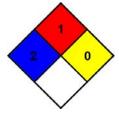
medical attention is given.

NFPA fire hazard

: 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



HMIS III Rating

Physical

Health : 2 Moderate Hazard - Temporary or minor injury may occur

\* - Chronic (long-term) health effects may result from repeated overexposure

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,

solids and semi solids having a flash point above 200 F. (Class IIIB)

Solido and sonii solido having a hash point above 250 1. (Glass III.)

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal Protection : H

H - Splash goggles, Gloves, Synthetic apron, Vapor respirator

SDS US (GHS HazCom 2012)

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.

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