

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 18/03/2011

Revision date: 01/06/2016

Supersedes: 07/01/2015

Version: 5

CLM-4815

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

1.1. Product identifier

Product form : Substance

Substance name : ENDRIN ALDEHYDE (13C12, 99%)

CAS No : 7421-93-4 (Unlabeled)

Product code : CLM-4815
Formula : *C12H8Cl6O
Other means of identification : Also applicable to:

CLM-4815-50 (13C12, 99%) >90% CHEMICAL PURITY

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

1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA

USA: 1-800-322-1174 Int: 1-978-749-8000 cilsales@isotope.com www.isotope.com

Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute Tox. 4 (Oral) H302 Aquatic Chronic 4 H413

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R22 R53

Full text of R-phrases: see section 16

Classification (GHS-US)

Acute Tox. 4 (Oral) H302 Aquatic Chronic 4 H413

Adverse physicochemical, human health and environmental effects

No additional information available

01/06/2016 EN (English US) 1/7

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.2 Label elements

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

Hazard pictograms (CLP)



Signal word (CLP) : Warning

Hazard statements (CLP) : H302 - Harmful if swallowed

H413 - May cause long lasting harmful effects to aquatic life

Precautionary statements (CLP) : P264 - Wash Both hands thoroughly after handling P270 - Do no eat, drink or smoke when using this product

P273 - Avoid release to the environment

P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell

P330 - Rinse mouth

P501 - Dispose of contents/container to Comply with applicable regulations.

GHS-US labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H302 - Harmful if swallowed

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P273 - Avoid release to the environment

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P330 - If swallowed, rinse mouth

P501 - Dispose of contents/container to Comply with applicable regulations.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%	Classification according to Directive 67/548/EEC
ENDRIN ALDEHYDE (13C12, 99%) (Main constituent)	(CAS No) 7421-93-4 (Unlabeled)	100	Xn; R22 R53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ENDRIN ALDEHYDE (13C12, 99%) (Main constituent)	(CAS No) 7421-93-4 (Unlabeled)	100	Acute Tox. 4 (Oral), H302 Aquatic Chronic 4, H413

Full text of R-, H- and EUH-phrases: see section 16

Name	Product identifier	%	Classification (GHS-US)
ENDRIN ALDEHYDE (13C12, 99%) (Main constituent)	(CAS No) 7421-93-4 (Unlabeled)	100	Acute Tox. 4 (Oral), H302 Aquatic Chronic 4, H413

Full text of H-phrases: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Move out of dangerous area. Consult a physician and show this safety data sheet.

01/06/2016 EN (English US) 2/7

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

First-aid measures after inhalation : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a

physician.

First-aid measures after skin contact : Wash with soap and plenty of water. Consult a physician.

First-aid measures after eye contact : Flush eyes with water as a precaution.

First-aid measures after ingestion Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

physician.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May be harmful if inhaled. May cause respiratory tract irritation. Symptoms/injuries after skin contact : May be harmful if absorbed through skin. May cause skin irritation.

Symptoms/injuries after eye contact : Contact may cause eye irritation.

Symptoms/injuries after ingestion : Toxic if swallowed.

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

Extinguishing media

suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Special hazards arising from the substance or mixture

No additional information available

Advice for firefighters

Firefighting instructions : Wear self contained breathing apparatus for fire fighting if necessary.

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas.

Ensure adequate ventilation. Avoid breathing dust.

6.1.2. For emergency responders

No additional information available

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and material for containment and cleaning up

For containment : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable,

closed containers for disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

Precautions for safe handling

: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate Additional hazards when processed

exhaust ventilation at places where dust is formed. Normal measures for preventive fire

: Handle in accordance with good industrial hygiene and safety practice. Wash hands before Hygiene measures breaks and at the end of workday.

Conditions for safe storage, including any incompatibilities

: Keep container tightly closed in a cool, dry and well-ventilated place. Technical measures

Storage conditions : Store refrigerated (-5 C to 5 C). Protect from light.

Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

Control parameters

No additional information available

01/06/2016 EN (English US) 3/7

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

8.2. Exposure controls

Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Hand protection : Wear suitable protective clothing and gloves.

Eye protection : Wear safety glasses with side shields (or goggles) and a face shield.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance

at the work place.

Respiratory protection : When appropriate, use NIOSH/CEN approved respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Solid.

Molecular mass : 392.82 (Labeled)

Color : white.

Odor No data available. Odor threshold : No data available : No data available рΗ Relative evaporation rate (butyl acetate=1) : No data available : 151.0 °C (303.8 °F) Melting point Freezing point : No data available Boiling point : No data available Flash point : No data available Self ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapor pressure No data available : No data available Relative vapor density at 20 °C Relative density : No data available Insoluble in water. Solubility Water: insoluble

Log Pow : 5.60

Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosive limits : 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

Stable if stored under recommended conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong oxidizing agents.

01/06/2016 EN (English US) 4/7

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.6. Hazardous decomposition products

carbon oxides. Hydrogen chloride gas.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

ENDRIN ALDEHYDE (13C12, 99%) (7421-93-4 (Unlabeled))		
LD50 oral rat	500 mg/kg	
ATE (oral)	500.000 mg/kg body weight	

Skin corrosion/irritation : Not classified

No data available

Serious eye damage/irritation : Not classified

No data available

Respiratory or skin sensitization : Not available

No data available

Germ cell mutagenicity : Not available
Carcinogenicity : Not classified
Reproductive toxicity : Not available
Specific target organ toxicity (single exposure) : Not classified

No data available

Specific target organ toxicity (repeated

exposure)

Aspiration hazard

Not classifiedNo data available

: Not classified

Potential Adverse human health effects and

symptoms

To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated.

Symptoms/injuries after inhalation : May be harmful if inhaled. May cause respiratory tract irritation.

Symptoms/injuries after skin contact : May be harmful if absorbed through skin. May cause skin irritation.

Symptoms/injuries after eye contact : Contact may cause eye irritation.

Symptoms/injuries after ingestion : Toxic if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

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ENDRIN ALDEHYDE (13C12, 99%) (7421-93-4 (Unlabeled))	
Persistence and degradability	Not available.

12.3. Bioaccumulative potential

ENDRIN ALDEHYDE (13C12, 99%) (7421-93-4 (Unlabeled))	
Log Pow	5.60
Bioaccumulative potential	Not available.

12.4. Mobility in soil

ENDRIN ALDEHYDE (13C12, 99%) (7421-93-4 (Unlabeled))	
Ecology - soil	Not available.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and Local

environmental control regulations

Waste disposal recommendations : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed

professional waste disposal service to dispose of this material.

01/06/2016 EN (English US) 5/7

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Ecology - waste materials : Dispose of as unused product.

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Additional information

Other information : No supplementary information available.

Special transport precautions : Not dangerous goods.

Overland transport

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

14.4. Environmental hazards

Other information : No supplementary information available.

14.5. Special precautions for user

Special transport precautions : Not dangerous goods.

14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

ENDRIN ALDEHYDE (13C12, 99%) (7421-93-4 (Unlabeled))

SARA Section 311/312 Hazard Classes Immediate (acute) health hazard

15.2. International regulations

CANADA

ENDRIN ALDEHYDE (13C12, 99%) (7421-93-4 (Unlabeled))

Not listed on the Canadian DSL (Domestic Substances List) inventory.

15.2.1. National regulations

No additional information available

15.3. US State regulations

ENDRIN ALDEHYDE (13C12, 99%)(7421-93-4 (Unlabeled))

State or local regulations

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - New Jersey - Right to Know Hazardous Substance List

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information

01/06/2016 EN (English US) 6/7

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-phrases::

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Chronic 4	Hazardous to the aquatic environment - Chronic Hazard Category 4
H302	Harmful if swallowed
H413	May cause long lasting harmful effects to aquatic life
R22	Harmful if swallowed
R53	May cause long-term adverse effects in the aquatic environment
Xn	Harmful

NFPA health hazard : 2 - Intense or continued exposure could cause temporary

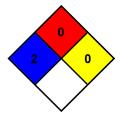
incapacitation or possible residual injury unless prompt

medical attention is given.

NFPA fire hazard : 0 - Materials that will not burn.

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

and are not reactive with water.



HMIS III Rating

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

Flammability : 0 Minimal Hazard Physical : 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

01/06/2016 EN (English US) 7/7