

# SAFETY DATA SHEET

Issue Date 10-Jan-2019

Revision Date 10-Jan-2019

Version 1

#### **1. IDENTIFICATION** Product identifier **Product Name** Chlordane Other means of identification **Product Code** PEO-005-5 UN/ID no. 1090 **Synonyms** None Recommended use of the chemical and restrictions on use **Recommended Use** For Laboratory Use Only. Uses advised against No information available Details of the supplier of the safety data sheet **Supplier Address Manufacturer Address** NSI Lab Solutions, Inc. NSI Lab Solutions, Inc. 7212 ACC Blvd. 7212 ACC Blvd. Raleigh, NC 27617 Raleigh, NC 27617 Emergency telephone number **Company Phone Number** 800-234-7837 FAX 919-789-3019

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# 2. HAZARDS IDENTIFICATION

## **Classification**

## **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

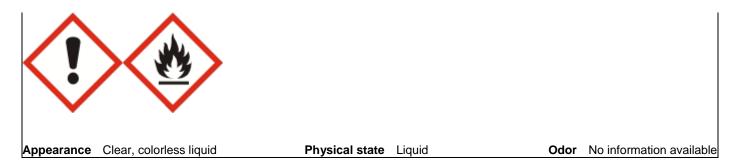
## Label elements

**Emergency Overview** 

# Danger

# Hazard statements

H319: Causes serious eye irritation May cause respiratory irritation. May cause drowsiness or dizziness H225: Highly flammable liquid and vapor



## Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ ventilating / lighting/ equipment. Use only non-sparking tools Take precautionary measures against static discharge Wear protective gloves/eye protection/face protection Keep cool

#### **Precautionary Statements - Response**

IF IN EYES: 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 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor if you feel unwell In case of fire: Use CO2, dry chemical, or foam to extinguish

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed Store locked up

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Repeated exposure may cause skin dryness or cracking.

#### Other Information

May be harmful if inhaled

Unknown acute toxicity

100 % of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Chemical Name	CAS No.	Weight-%
Acetone	67-64-1	99
Defer to Contificate of Analysis for expect personal an expectation		

Refer to Certificate of Analysis for exact percentage concentration.

## **4. FIRST AID MEASURES**

## Description of first aid measures

Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash skin with soap and water.	
Inhalation	Remove to fresh air.	
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Clean mouth with water and drink afterwards plenty of water. Consult a physician, if necessary.	
Most important symptoms and effects, both acute and delayed		
Symptoms	The most important known symptoms and effects are described in Section 2 and/or Section 11.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	
5. FIRE-FIGHTING MEASURES		

## Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media No information available.

#### Specific hazards arising from the chemical

Carbon oxides.

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge May be ignited by heat, sparks or flames.

# Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation, especially in confined areas.		
Environmental precautions			
Environmental precautions	See Section 12 for additional Ecological Information.		
Methods and material for containment and cleaning up			
Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Pick up and transfer to properly labeled containers.		
	7. HANDLING AND STORAGE		

## Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. For precautions,

### see Section 2.

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

Storage ConditionsKeep containers tightly closed in a dry, cool and well-ventilated place.Incompatible materialsNo information available. Bases, oxidizing agents, reducing agents, Acetone reacts violently<br/>with phosphorous oxychloride.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

## **Exposure Guidelines**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetone	STEL: 500 ppm	TWA: 1000 ppm	IDLH: 2500 ppm
67-64-1	TWA: 250 ppm	TWA: 2400 mg/m <sup>3</sup>	TWA: 250 ppm
		(vacated) TWA: 750 ppm	TWA: 590 mg/m <sup>3</sup>
		(vacated) TWA: 1800 mg/m <sup>3</sup>	_
		(vacated) STEL: 2400 mg/m <sup>3</sup>	
		The acetone STEL does not apply	
		to the cellulose acetate fiber	
		industry. It is in effect for all other	
		sectors.	
		(vacated) STEL: 1000 ppm	

## Appropriate engineering controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

#### Individual protection measures, such as personal protective equipment

Eye/face protection	Avoid contact with eyes.
Skin and body protection	Wear protective gloves and protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state Appearance Color	Liquid Clear, colorless liquid Colorless	Odor Odor threshold	No information available No information available
Property pH Melting point / freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air	Values No information available -94 °C -137 °F 56 °C 133 °F (at 760 mm Hg) -16.99 °C 1.42 °F No information available No information available	Remarks • Method Closed Cup No information available No information available	
Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density	13% (V) 2% (V) No information available No information available	No information available No information available	

Relative density Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties

#### **Other Information**

Softening point Molecular weight VOC Content (%) Density Bulk density No information available Miscible in water No information available A65.0 °C 869.0 °F No information available No information available

No information available

No information available

No information available

No information available

No information available

No information available

No information available No information available No information available

# **10. STABILITY AND REACTIVITY**

#### Reactivity

No information available

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

#### Conditions to avoid

Heat, flames and sparks.

#### Incompatible materials

No information available. Bases, oxidizing agents, reducing agents, Acetone reacts violently with phosphorous oxychloride.

## **Hazardous Decomposition Products**

No information available.

# **11. TOXICOLOGICAL INFORMATION**

## Information on likely routes of exposure

Product Information	No data available
Inhalation	No data available.
Eye contact	No data available.
Skin contact	No data available.
Ingestion	No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Acetone	= 5800 mg/kg (Rat)	> 15700 mg/kg (Rabbit)	= 50100 mg/m <sup>3</sup> (Rat) 8 h
67-64-1			

#### Information on toxicological effects

Symptoms

No information available.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	5,858.60
ATEmix (dermal)	15,874.40
ATEmix (inhalation-dust/mist)	101.20

# **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

1 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Acetone	-	4.74 - 6.33: 96 h Oncorhynchus	10294 - 17704: 48 h Daphnia
67-64-1		mykiss mL/L LC50 8300: 96 h	magna mg/L EC50 Static 12600 -
		Lepomis macrochirus mg/L LC50	12700: 48 h Daphnia magna mg/L
		6210 - 8120: 96 h Pimephales	EC50
		promelas mg/L LC50 static	

### Persistence and degradability

No information available.

## **Bioaccumulation**

No information available.

Other adverse effects

No information available

# **13. DISPOSAL CONSIDERATIONS**

## Waste treatment methods

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Do not reuse container.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Acetone	-	Included in waste stream:	-	U002
67-64-1		F039		

Chemical Name	California Hazardous Waste Status
Acetone	Ignitable
67-64-1	

# 14. TRANSPORT INFORMATION

DOT	Not regulated
UN/ID no.	1090
Proper shipping name	Acetone
Hazard Class	3
Packing Group	11
Reportable Quantity (RQ)	5000 lbs

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Acetone
3
II

## IMDG

UN/ID no.	1090
Proper shipping name	Acetone
Hazard Class	3
Packing Group	II
EmS-No.	F-E, S-D

# **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances **PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## US Federal Regulations

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

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Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

## CWA (Clean Water Act)

This product, as supplied, does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## US State Regulations

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals

Chemical Name California Proposition 65			
Acetone - 67-64-1	-		
U.S. State Dight to Know Degulations			

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Acetone	Х	Х	Х
67-64-1			

**U.S. EPA Label Information** 

EPA Pesticide Registration Number Not applicable

## 16. OTHER INFORMATION. INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards 2	Flammability	3	Instability 0	Physical and Chemical Properties -
HMIS Chronic Hazard Star Lege	Health hazards 2 nd *= Chronic	Flammability Health Hazard	3	Physical hazards 0	Personal protection X
Issue Date Revision Date	10-JAN-20 10-JAN-20	-			

evision Date **Revision Note** No information available Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

#### **End of Safety Data Sheet**