Material Safety Data Sheet



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I. PRODUCT IDENTIFICATION

Catalog Number / Product Name: 32467 / Endosulfan Sulfate Standard

Revision Number:

Intended use: For Laboratory use only

II. HAZARD INDENTIFICATION

Emergency Overview:

Physical Hazards: F - Highly flammable

Health Hazards: Xi - Irritant

Routes of Entry: Inhalation, Skin Contact, Eye Contact, Ingestion

Target Organs Potentially Affected By Exposure: eyes, CNS, respiratory system, skin

Chemical Interactions That Change Toxicity: None Known

Medical Conditions Aggravated By Exposure: Respiratory disease including asthma and bronchitis

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation: Can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea,

and headache.

Skin Contact: Can cause minor skin irritation, defatting, and dermatitis. **Eye Contact:** Can cause minor irritation, tearing and reddening.

Ingestion Irritation: May be harmful if swallowed.

Ingestion Toxicity: Harmful if swallowed. May cause systemic poisoning.

Long-Term (Chronic) Health Effects:

Carcinogenicity: No data.

Reproductive and Developmental Toxicity: No data available to indicate product or any

components present at greater than 0.1% may cause

birth defects.

Inhalation: Upon prolonged and/or repeated exposure, can cause

minor respiratory irritation, dizziness, weakness,

fatigue, nausea, and headache.

Skin Contact: Upon prolonged or repeated contact, can cause minor

skin irritation, defatting, and dermatitis.

III. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS#	EINEC #	% Composition
Acetone	67-64-1	200-662-2	99.900000
endosulfan sulfate	1031-07-8	.	0.100000

IV. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not

breathing, give artificial respiration and have a trained individual administer oxygen. Get

medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to

prevent chemical from transferring to the uncontaminated eye. Get immediate medical

attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical

attention if irritation develops or persists.

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water

or milk to dilute. Provide medical care provider with this MSDS.

V. FIRE FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing

agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire. Flammable component(s) of this material may be lighter than water and burn while

floating on the surface.

Fire and/or Explosion Hazards: Vapors may be ignited by heat, sparks, flames or other sources of

ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and

flash back

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained

toxic breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Use water spray/fog for cooling.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be irritating or harmful. Follow

personal protective equipment recommendations found in Section VIII of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the

expertise of employees in the area responding to the spill.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the

environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal

evaluation.

VII. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Harmful or irritating material. Avoid contacting and avoid

breathing the material. Use only in a well ventilated area. Use

spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from

incompatible materials and conditions. Keep container(s)

closed. Keep away from sources of ignition

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

 Chemical Name
 CAS No.
 IDLH
 ACGIH STEL
 ACGIH TLV-TWA
 OSHA Exposure Limit

 Acetone
 67-64-1
 2500 ppm IDLH
 750 ppm STEL;
 500 ppm TWA; 1188 mg/m3
 1000 ppm TWA; 2400

(10% LEL) 1782 mg/m3 STEL TWA mg/m3 TWA
endosulfan sulfate 1031-07-8 ND No TLV No PEL established

United Kingdom:

Chemical Name CAS No. EINEC No. WEL-STEL WEL-TWA

Acetone 67-64-1 200-662-2 1500 ppm STEL; 500 ppm TWA; 1210 mg/m3

and a sulfate 1031-07-8 and a sulfate 1031-07-8 and a sulfate No data. No data.

France:

Chemical Name CAS No. EINEC No. VLCTs-STEL VME-TWA

Acetone 67-64-1 200-662-2 1000 ppm STEL **500 ppm VME; 1210 mg/m3**

[VLCT] (restrictive VME limit); 2420 mg/m3 STEL [VLCT]

endosulfan sulfate 1031-07-8 (restrictive limit)
No data. No data.

Germany:

Chemical Name CAS No. EINEC No. VELs

Acetone 67-64-1 200-662-2 500 ppm TWA AGW (exposure factor 2); 1200 mg/m3 TWA AGW (exposure factor 2)

endosulfan sulfate 1031-07-8 No data.

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels

of vapors from handling or thermal processing.

Respiratory Protection: No respiratory protection required under normal conditions of use. Provide

general room exhaust ventilation if symptoms of overexposure occur as

explained Section III. A respirator is not normally required.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this

product. Do not wear contact lenses.

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and

replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating,

drinking, and when leaving work

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color: Depends upon product selection

Odor: Strong

pH: No data available.
Vapor Density: 2.0 (air = 1)

 Welting Point:
 -95.4 ℃ Melting Point

 Flash Point:
 No data available.

 Flammability:
 Highly Flammable

Autoignition Temperature: 465 deg C

Specific Gravity:0.7845 g/cm3 at 25 ℃Evaporation Rate:No data available.Odor Threshold:No data available.Solubility:Complete; 100%VOC % by weight:No data available.Molecular Weight:No data available.

X. STABILITY AND REACTIVITY:

Stability: Stable under normal conditions. **Materials to Avoid / Chemical Incompatiability:** Strong oxidizing agents Strong acids

Hazardous Decomposition Products: Carbon dioxide Carbon monoxide

XI. TOXICOLOGICAL INFORMATION:

Component Toxicological Data:

NIOSH:

Chemical Name CAS No. LD50/LC50

32467 / Endosulfan Sulfate Standard

Page 3 of 5

Acetone 67-64-1 Oral LD50 Rat 5800 mg/kg

Component Carcinogenic Data:

OSHA:

Chemical Name CAS No.

No data available

ACGIH:

Chemical Name CAS No.

Acetone 67-64-1 A4 - Not Classifiable as a Human Carcinogen

NIOSH:

Chemical Name CAS No.

No data available.

NTP:

Chemical Name CAS No.

No data available.

IARC:

Chemical Name CAS No. Group No.

 No data.
 Group 1

 No data.
 Group 2A

 No data.
 Group 2B

XII. ECOLOGICAL INFORMATION:

Overview: No ecological information available

Mobility:No dataPersistence:No dataBioaccumulation:No dataDegradability:No dataEcological Toxicity Data:0

XIII. DISPOSAL CONSIDERATIONS:

Waste Description of Spent Product: Spent or discarded material is a hazardous waste.

Disposal Methods: Dispose of by incineration following Federal, State,

Local, or Provincial regulations.

Waste Disposal of Packaging: Comply with all Local, State, Federal, and Provincial

Environmental Regulations.

XIV: TRANSPORTATION INFORMATION:

United States:

DOT Proper Shipping Name:
UN Number:
UN1090
Hazard Class:
Packing Group:

II

International:

IATA Proper Shipping Name:
UN Number:
UN1090
Hazard Class:
Packing Group:

Acetone
UN1090
II

Marine Pollutant: Yes

XV. REGULATORY INFORMATION:

United States:

 Chemical Name
 CAS#
 CERCLA
 SARA 313
 SARA EHS 313
 TSCA

 Acetone
 67-64-1
 X
 X

 endosulfan sulfate
 1031-07-8
 X

The following chemicals are listed on CA Prop 65:

Chemical Name CAS # Regulation

State Right To Know Listing:

Chemical NameCAS#New JerseyMassachusettsPennsylvaniaCaliforniaAcetone67-64-1XXXXendosulfan sulfate1031-07-8XXXX

EU Directives Classification: Hazard Symbols





Risk Phrases: R36 - Irritating to eyes R11 - Highly flammable

Safety Phrases: S16:Keep away from sources of ignition - No smoking

S36/37/39:Wear suitable protective clothing, gloves and eye/face protection

XVI: ADDITIONAL INFORMATION

Prior Version Date:

Disclaimer

None

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