Section 1. Product and Company Identification

Product Name Isooctyl Thioglycolate
CAS Number 25103-09-7

Parchem - fine & specialty chemicals
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EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture
GHS Classification
Acute oral toxicity: Category 4
Skin sensitization: Category 1A
Acute aquatic toxicity: Category 1
Chronic aquatic toxicity: Category 1

GHS Label Elements

Pictograms:

Signal word: WARNING!

Hazard and precautionary statements
Hazard statements
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
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.

Prevention
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
Storage
P405 Store locked up.
Disposal
P501 Dispose of contents/container to an approved waste disposal plant.
Other hazards: None known.

Section 3. Composition / Information on Ingredients

Common Name Isooctyl Thioglycolate
CAS Number 25103-09-7

COMPONENT	CAS NUMBER	CONCENTRATION
Isooctyl Thioglycolate	25103-09-7	? 98%

Section 4. First Aid Measures

General advice: Take off contaminated clothing and shoes immediately.
If inhaled: Remove to fresh air. Oxygen, if needed.
In case of skin contact: Wash off immediately with soap and plenty of water.
In case of eye contact: Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.
If swallowed: Induce vomiting if person is conscious. Hold person's head low to prevent aspiration (inhalation into windpipe.) Rinse mouth. If conscious, give the victim plenty of water to drink. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Most important symptoms and effects, both acute and delayed
Lungs: Cough
Eyes: Inflammation, may cause sensitization by skin contact.
Oral: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Notes to physician: Treat symptomatically.

Section 5. Firefighting Measures

Suitable extinguishing media: Foam; Carbon dioxide (CO_2)
Specific hazards during fire-fighting: Hazardous decomposition products formed under fire conditions include Sulphur oxides (SO_x); Carbon dioxide (CO_2)

Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use water spray to cool unopened containers.
Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Exposure controls. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. For personal protection see section 8. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Environmental precautions: Do not allow contact with soil, surface or ground water.
If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Treat recovered material as described in the section "Disposal considerations".

Section 7. Handling and Storage

Advice on safe handling: Use product only in closed system.
Exposure controls: Handle and open container with care. Ventilate the area. Use only in area provided with appropriate exhaust ventilation. Avoid contact with skin and eyes. Ensure that eyewash stations and safety showers are close to the workstation location.
Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container.

Section 8. Exposure Controls / Personal Protection

Components with workplace control parameters
Engineering measures: Use only in area provided with appropriate exhaust ventilation.

Personal protective equipment
Respiratory protection: No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment.
Recommended Filter type: Follow the instructions for use issued by the producer.
Eye protection: Wear eye/face protection. Tightly fitting safety goggles
Skin and body protection: Use protective clothing impervious to this material. Selection of specific items such as face shield, gloves, boots, apron or full-body suit will depend on operation. Remove contaminated clothing immediately, wash skin area with soap and water and launder clothing before reuse. Items which cannot be decontaminated, such as shoes, belts and watchbands, should be removed and destroyed.
Hygiene measures: Provide sufficient air exchange and/or exhaust in work rooms. Wash hands before breaks and at the end of workday.

Preventive skin protection: Avoid contact with the skin and the eyes. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Keep working clothes separately. Take off contaminated clothing and wash before reuse.

Section 9. Physical and Chemical Properties

Appearance: Liquid
Color: Water-white
Odor: Characteristic
pH: Not applicable
Melting point/range: < -50°C
Boiling point/boiling range: 261 - 266°C (1,013 hPa) Decomposes on heating.
Flash point: 116°C

Vapor pressure
3.09 hPa (at 20°C)
4.6 hPa (at 25°C)
Density: 0.975 - 0.977 g/cm^3

Solubility(ies)
Water solubility: 10.6 mg/l (20°C)

Partition coefficient: n-octanol/water: log Pow: 3.8 (21°C)
Auto-ignition temperature: 210°C

Section 10. Stability and Reactivity

Reactivity: No dangerous reaction known under conditions of normal use.
Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.
Conditions to avoid: Product can decompose at elevated temperatures.
Incompatible materials: Keep away from oxidizing agents.

Section 11. Toxicological Information

Acute toxicity
Acute oral toxicity
LD50 (Rat): 348 mg/kg
LD50 (Rat): 485 mg/kg
Acute inhalation toxicity
LC0 (Rat): 1710 ppm
Exposure time: 7 h

Acute dermal toxicity
LD50 (Rat): > 2,000 mg/kg
Method: OECD 402
LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation
Species: Rabbit
Method: OECD 404
Result: Slightly irritating

Serious eye damage/eye irritation
Species: Rabbit
Result: Very slight or slight conjunctival reactions
Method: OECD 405

Respiratory or skin sensitization
Species: Guinea pig
Method: OECD 406
Result: Weak sensitization response

Germ cell mutagenicity
Genotoxicity in vitro
Test Type: Ames Test
Method: OECD 471
Result: negative

Test Type: Chromosome aberration test
Method: OECD 473
Result: negative

Reproductive toxicity
Effects on fertility
Species: Rat
Application Route: oral
NOAEL: 50 mg/kg,
Method: OECD 421
Test substance: 2-Ethylhexyl thioglycolate

Repeated dose toxicity
Species: Rat
Application Route: Inhalation
Exposure time: 2 weeks
Remarks: NOEL = 3.2 ppm

Section 12. Ecological Information

Ecotoxicity
Toxicity to fish
LC50 (Leuciscus idus): 2.65 mg/l
Exposure time: 48 h
Method: DIN 38412 / 15
Toxicity to daphnia and other aquatic invertebrates
EC50 (Daphnia magna): 0.39 mg/l
Exposure time: 48 h
Method: OECD 202
Toxicity to bacteria
EC10 (Pseudomonas putida): 0.77 mg/l
Exposure time: 16 h
Method: ISO 10712

EC10 (Pseudomonas putida): > 10 g/l
Exposure time: 16 h
Method: DIN 38412 / 8

Persistence and degradability
Biodegradability
Result: biodegradable
Biodegradation: 76 %
Method: OECD Test Guideline 301F
Remarks: 10-d window was not met.

Bioaccumulative potential
Bioaccumulation
Bioconcentration factor (BCF): 800
Method: Estimated

Mobility in soil: No data available
Other adverse effects: No data available

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

International Regulation
IATA-DGR
UN/ID No.: UN 3082
Class: 9
Packing group: III
Packing instruction (cargo aircraft): 964
Packing instruction (passenger aircraft): 964

IMDG-Code
UN number: UN 3082
Proper Shipping Name: UN3082, Environmentally hazardous substances, liquid, n.o.s.
Class: 9
Packing group: III
Labels: 9
EmS Code: F-A, S-F
Marine pollutant: no

CFR49-Code: UN 3082, Class: 9, Packing Group: III

Further Information: None

Section 15. Regulatory Information

EPCRA - Emergency Planning and Community Right-to-Know Act
SARA 311/312 Hazards: Additional national related regulatory information for the product can be provided on demand in a separate document.
California Prop 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other re-productive harm.

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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