

Safety Data Sheet

Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name Ferrous-Ferric Iron

Other means of identification

Product Code(s) 5265 UN-No 1940

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory chemicals. Industrial (not for food or food contact use). Use as a laboratory

reagent.

Details of the supplier of the safety data sheet

Manufacturer Address LaMotte Company, Inc. 802 Washington Avenue

P.O. Box 329

Chestertown, MD 21620 USA

T 410-778-3100 F 410-778-9748

Emergency telephone number

24 Hour Emergency Number (CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

EMERGENCY OVERVIEW

DANGER

Hazard statements

Toxic if swallowed. Harmful in contact with skin. Toxic if inhaled. Causes severe skin burns and eye damage.



Appearance pink Physical state liquid Odor Unpleasant - Skunk

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Do not taste or swallow. Do not breathe dust/fume/gas/mist/vapors/spray.

Precautionary Statements - Response

Immediately call a POISON CENTER or physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician, Rinse mouth, IF SWALLOWED, Do NOT induce vomiting

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Thioglycolic acid	68-11-1	70

4. FIRST AID MEASURES

First Aid Measures

General advice Do not get in eyes, on skin, or on clothing. Consult a physician.

Eye contact Immediately flush eyes with gentle stream of water for at least 15 minutes, occasionally

lifting upper and lower eyelids. Consult a physician.

Skin contactWash off immediately with soap and plenty of water for at least 15 minutes while removing

all contaminated clothing and shoes. Consult a physician.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration and contact emergency personnel. Consult a physician.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Call a physician or poison control center immediately.

Self-protection of the first aider

Use personal protective equipment. Do not use mouth-to-mouth method if victim ingested or

inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with

a one-way valve or other proper respiratory medical device.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray, dry chemical, carbon dioxide (CO₂), or foam.

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, protective equipment and emergency procedures

Personal precautions Use personal protective equipment. Wear respiratory protection. Wear protective

gloves/clothing and eye/face protection. Ensure adequate ventilation. Evacuate personnel

to safe areas.

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste

container. Dispose according to federal, state, and local regulations.

Methods for cleaning up Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Avoid contact with skin and eyes. Avoid ingestion and inhalation. Do not eat, drink, or

smoke when using this product. Handle in accordance with good industrial hygiene and

safety practice.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from

incompatible materials. Keep out of the reach of children.

Incompatible Products Strong oxidizing agents. Strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Thioglycolic acid	TWA: 1 ppm	-	TWA: 1 ppm
68-11-1			TWA: 4 mg/m ³

Appropriate engineering controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves/clothing.

respiratory equipment.

Hygiene Measures Avoid contact with eyes, skin and clothing. Wash hands before breaks and immediately

after handling the product. Do not eat, drink or smoke when using this product. Take off

contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state liquid

AppearancepinkOdorUnpleasant - Skunk

Thioglycolic acid

0.4 mm Hg @ 25 °C (Thioglycolic acid solution)

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 1

Melting point / freezing point

No information available

Boiling point / boiling range

120 °C Thioglycolic acid

Flash point 130 °C / 266 °F

Evaporation rate

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:

Lower flammability limit:

No information available

No information available

Vapor pressure 0.4 Vapor density 3.18

Specific gravity
Water solubility
Solubility in other solvents
Partition coefficient

No information available
Completely miscible
No information available
Log Pow:0.059

Autoignition temperature

Autoignition temperature

Decomposition temperature

Kinematic viscosity

Dynamic viscosity

Explosive properties

Oxidizing properties

Log Pow:0.059

350 °C / 662 °F

No information available

No information available

No information available

No information available

Other Information

Softening point
Molecular weight
VOC Content (%)
Density
No information available

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions of use and storage.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Excessive heat.

Incompatible materials Strong oxidizing agents. Strong acids.

Hazardous decomposition products Liberates toxic hydrogen sulfide gas on decomposition with heat. Carbon oxides (COx).

Sulfur oxides (SOx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Thioglycolic acid 68-11-1	= 73 mg/kg(Rat)	= 848 mg/kg(Rabbit)	= 56.7 ppm(Rat)4 h

Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Thioglycolic acid	Not Established	Not Established	Not Established	Not Established
68-11-1				

ATEmix (oral) 102 ATEmix (dermal) 1104 mg/kg ATEmix (inhalation-dust/mist) 0.7 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 72 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Thioglycolic acid	Not Established	Not Established	Not Established
68-11-1			

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow
Thioglycolic acid 68-11-1	Not Established

13. DISPOSAL CONSIDERATIONS

Disposal Methods Should not be released into the environment. Dispose of contents/containers in accordance

with local regulations.

Contaminated packaging Do not reuse empty containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Thioglycolic acid 68-11-1	Not Established	-	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Thioglycolic acid 68-11-1	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Thioglycolic acid	-
68-11-1	

14. TRANSPORT INFORMATION

DOT

Proper shipping name THIOGLYCOLIC ACID

UN-No 1940 Hazard Class 8 Packing group II

<u>IATA</u>

Proper shipping name THIOGLYCOLIC ACID

UN-No 1940 Hazard Class 8 Packing group II

IMDG/IMO

Proper shipping name THIOGLYCOLIC ACID

UN-No 1940 Hazard Class 8 Packing group II

15. REGULATORY INFORMATION

International Inventories

Complies **TSCA DSL/NDSL** Complies **EINECS/ELINCS** Complies Complies **ENCS** Complies **IECSC 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

Chemical name	SARA 313 - Threshold Values %
Thioglycolic acid 68-11-1	Not Established
SARA 311/312 Hazard Categories	·
Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

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

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Thioglycolic acid 68-11-1	Not Established	Not Established	Not Established	Not Established

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

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Thioglycolic acid 68-11-1	-	Not Established	-

US State Regulations

California Proposition 65

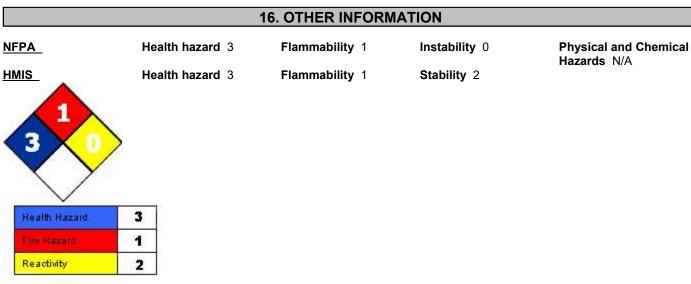
Chemical name	California Proposition 65
Thioglycolic acid 68-11-1	Not Established

Revision Date Jul-24-2015

U.S. State Right-to-Know Regulations

	Chemical name	New Jersey	Massachusetts	Pennsylvania
- 1	Thioglycolic acid	X	X	X
	68-11-1			

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances



Prepared by Issuing Date Revision Date Reason for revision Regulatory Affairs Department

Jun-01-2015 Jul-24-2015

New US GHS format

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Material Safety Data Sheet