

# **Safety Data Sheet**

# IDENTIFICATION

**Product Name:** 



**EPA Reg. No.:**Chemical Family:
Not Applicable
Inorganic salt solution

Manufacturer/Supplier: Tessenderlo Kerley Inc.

2255 N. 44<sup>th</sup> Street, Suite 300 Phoenix, Arizona 85008-3279 Information:(602) 889-8300

For 24-Hour Emergency Assistance (Spill, Leak, Fire, or Exposure), Call CHEMTREC®:

(800) 424-9300 (CHEMTREC) (866) 374-1975 (Tessenderlo Kerley)

# 2 HAZARD(S) IDENTIFICATION

# Classification of the substance or mixture

Pictogram	Hazard Statements	Precautionary Statements
<b>(!)</b>	Harmful if swallowed	Wash thoroughly with soap and water after handling. Do not eat, drink, or smoke when using this product. If swallowed, contact Poison Control Center if you feel unwell. Rinse mouth.
	Harmful if inhaled.  Harmful in contact with skin.  Causes skin irritation.	Avoid breathing product mist. Use only outdoors or in a well-ventilated area. Call a Poison Control Center if you feel unwell. IF ON SKIN: Wash immediately with water for 15 minutes. Wear protective gloves and clothing when handling product. Dispose of contents and container in accordance with procedures approved by state and local authorities.
	Causes serious eye damage	Wear eye protection. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center.
¥2>	Harmful to aquatic life	Do not allow release to aquatic waterways.

Signal word: Danger

Hazard-determining component(s) of labeling:

Calcium Polysulfide

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# 2 HAZARD(S) IDENTIFICATION - continued

#### NFPA Hazard Ratings

# **HMIS Ratings**



Health = 2 Fire = 0 Reactivity = 1



# 3 COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization:** Mixture

**Description:** Agricultural Soil Amendment

Component CAS No. % by Weight

**Active Ingredient:** Calcium polysulfide, CaS<sub>x</sub> 1344-81-6 29

#### 4 FIRST AID MEASURES

# Description of first aid measures

#### General information:

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies involving this product, call toll free 1-866-374-1975. See Label for Additional Precautions and Directions for Use.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**IF IN EYES:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

#### **NOTE TO PHYSICIAN**

Probable mucosal damage may contraindicate gastric lavage.

# 5 FIRE FIGHTING MEASURES

### Extinguishing media

#### Suitable extinguishing agents:

Use firefighting measures that suit the environment.

# Special hazards arising from the substance or mixture

When heated or diluted, hydrogen sulfide vapors will evolve. This gas may form explosive mixtures with air. Keep containers/storage vessels in fire area cooled with water spray.

#### Advice for firefighters

# **Protective equipment:**

Because of the possible presence of toxic gases and the irritating nature of the product firefighters should wear self-contained breathing apparatus and full fire-fighting turnout gear. Do not allow extinguishing media into waterways or storm water systems.

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# 6 ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment specified in Section 8. Isolate the release area and deny entry to unnecessary, unprotected and untrained personnel.

# **Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

# Methods and material for containment and cleaning up:

Absorb with liquid-binding material (ie. sand, diatomite, acid binders, universal binders, sawdust). Released material may contain residual sulfides. Spray with weak (~5%) hydrogen peroxide to

oxidize sulfides

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

# 7 HANDLING and STORAGE

### **Precautions for safe handling**

Do not get in eyes and avoid contact with skin and clothing.

Ensure good ventilation/exhaustion at the workplace.

Avoid prolonged or repeated exposure.

Personnel must refer to the Product Label and Directions For Use attached to the product for agricultural use requirements in accordance with the EPA Worker Protection Standard.

# Information about protection against explosions and fires:

Do not store combustibles in the same area. Keep away from heat, open flame, or ignition sources.

Keep protective respiratory device available.

# Conditions for safe storage, including any incompatibilities

Store in a cool, dry place.

Store in a well ventilated place.

Store tote and smaller containers out of direct sunlight at moderate temperatures.

#### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

Components with occupational exposure limits: N/A

#### Additional information:

Personnel who handle this product in its end-use application should use this product only in accordance with its pesticide labeling and with the "Worker Protection Standard", 40 CFR 170.

#### Exposure controls

# Personal protective equipment:

# General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

# **Breathing equipment:**

Use NIOSH approved, dual cartridge respirators for dusts or mists if local ventilation is inadequate (N, R or P class filter media with NIOSH approved prefix TC-84A).

#### Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product.

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# 8 EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

# **Material of gloves**

Butyl rubber, BR Natural rubber, NR Nitrile rubber, NBR Neoprene gloves

# Penetration time of glove material

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

# Eye protection:

Tightly sealed goggles Face protection

### **Body protection:**

Wear long-sleeved shirt and long pants, waterproof shoes and socks. Wash contaminated clothing before reuse.

# 9 PHYSICAL and CHEMICAL PROPERTIES

Appearance Ruby red liquid

**Odor** Strong odor of rotten eggs

Odor ThresholdNot determinedpH11.5- 11.7Melting/Freezing PointNot determined

Boiling PointN/AFlash PointN/AEvaporation RateN/AFlammability (Solid/Gas)N/A

**Upper/Lower Flammability** 

or Explosive Limits N/A
Vapor Pressure N/A
Vapor Density N/A
Relative Density N/A

Specific Gravity 1.273 (10.6 lbs/gal@68°F)

Solubility (in Water) Dissolves with precipitation of elemental sulfur

#### 10 STABILITY and REACTIVITY

**Reactivity** Strong oxidizers and acids

**Chemical stability** Stable to boiling point, will lose water above this temperature.

**Conditions to avoid** Exposure to extreme heat or open flames.

**Incompatibility** Strong <u>oxidizers</u> such as nitrates, nitrites or chlorates can

cause explosive mixtures if heated to dryness. <u>Acids</u>, acidic materials or dilution with water will cause the release of

hydrogen sulfide, a highly toxic gas.

**Hazardous decomposition products** Heating this product will evolve hydrogen sulfide vapors.

Continued heating will also cause oxides of sulfur to be

released.

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# 11 TOXICOLOGICAL INFORMATION (continued)

Acute toxicity:

LD/LC<sub>50</sub> values relevant for classification:

 $\begin{array}{ccc} \textbf{Oral} & & \text{Rat LD}_{50} & 820 \text{ mg/kg} \\ \textbf{Dermal} & & \text{Rabbit LD}_{50} : & >2,000 \text{ mg/kg} \\ \end{array}$ 

Inhalation Rat LC<sub>50</sub>: 3.9 mg/L (4 hrs) male

3.1 mg/L (4 hrs) female

Skin effects (rabbit) Mildly irritating

Eye effects (rabbit) Irreversible damage due to high pH

Chronic/Carcinogenicity:No evidence availableTeratology:Data not availableReproduction:Data not availableMutagenicity:Data not available

Carcinogenic categories

IARC (International Agency for Research on Cancer)
NTP (National Toxicology Program)
Not listed.
OSHA-Ca (Occupational Safety & Health Administration)
Not listed.

# 12 ECOLOGICAL INFORMATION

**Aquatic Toxicity** 

Aquatic Invertebrates

48 hour EC<sub>50</sub> Water flea (daphnia magna) 13.7 mg/L

Persistence and Degradability Calcium polysulfide is expected to rapidly dissociate in the presence

of any moisture to form calcium cation and elemental sulfur.

Bioaccumulation potential Does not bioaccumulate

Motility in Soil In the soil system, the modest amounts of calcium and sulfur that

result from the use of polysulfide are not believed to be significant

when compared to natural background levels.

Other Adverse Effects None known

# 13 DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your state Pesticide or Environmental Control Agency or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

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# 13 DISPOSAL CONSIDERATIONS (continued)

**CONTAINER DISPOSAL:** Nonrefillable Container (greater than five gallons): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of container in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Refillable Container:** Refillable container. Refill this container with Calcium Polysulfide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. For final disposal, offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. For final disposal, offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

#### 14 TRANSPORT INFORMATION

**UN Number:** 

DOT, ADR, IATA Non-Regulated Material

IMDG UN3082

UN Proper shipping name:

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (calcium polysulfide), MARINE

9 Miscellaneous dangerous substances and articles

**POLLUTANT** 

Transport hazard class(es)/Label(s):

DOT, ADR, IATA Non-Regulated Material

**IMDG** 

EMS Number:

Packing group:

IMDG III

Environmental hazards:Not knownMarine pollutant:Not ListedSpecial marking (ADR):N/ASpecial marking (IATA):N/A

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code: Not applicable

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N/A



# 15 REGULATORY INFORMATION

FIFRA: No Product Name: Solmenda EPA Reg No. N/A

Safety, health and environmental regulations/legislation specific for the substance or mixture

Section 355 (extremely hazardous substances): Not listed. Section 313 (Toxic Release Reporting-Form R): Not applicable

TSCA (Toxic Substances Control Act): Exempt from TSCA

**Proposition 65** 

Not applicable

CERCLA/SUPERFUND:

RQ (Reportable Quantity) Not applicable

RCRA Classification

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

# 16 OTHER INFORMATION

Issue Date: October 16, 2018

REVISIONS: New SDS.

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