Chemical Product and Company Identification

801 Janesville Ave. P.O. Box 901 Fort Atkinson, WI 63538-0901

KM00112 KI01500I

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use

Product

Synonyms

Sulfur Flowers | Sulfur Flour

Hazards identification Section 2

Signal word: WARNING Pictograms: GHS07 Target organs: None known



GHS Classification: Skin irritation (Category 2)

GHS Label information: Hazard statement: H315: Causes skin tritation.

Precautionary statement:

P284: Wash hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352: IF ON SKIN. Wash with plenty of water and soap, P332+P313: If also imitation occurs. Get medical attention. P382+P384: Take off contaminated clothing and wash it before reuse.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity

Chemical Name	CAS	%	EINECS
Sulfur	7704-34-9	100%	231-722-6

## Section 4 First Aid Measures

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention

EYE CONTACT: CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild scap and water. If irritation occurs, get medical attention.

## Section 6 Fire Fighting Measures

Sultable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, initiating and highly toxic gases may be generated by thermal decomposition or combustion. Finely dispersed particles form explosive mixtures

## Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 6. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Remove all sources of ignition. Sweep or vacuum up and place in a suitable container for proper disposal. Wash soil area with sono and water

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NIOSH (REL)

None established

Precautions for Safe Handling: Read label on container before using Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before TRUSA

Conditions for Safe Storage: Store in a cool dry, well-ventilated area away from incompatible substances. Keep away from ignition sources

Section 8 Exposure Controls / Personal Protection

ACGIH (TLV) Chemical Name OSHA (PEL) Exposure Limits: Sulfue None established None established

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire exhinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in furnio hood or wear a NIOSHANSHAapproved respirator

Physical & Chemical Properties

Appearance: Solid yellow powder or lumps Odor: Odor of rotten eggs Odor threshold: Data not available

pH: Oata not evallable,
Melting / Freezing point: 116-121°C (242-251°F) Bolling point: 444 C (831°F)
Flash point: 207°C (405°F) Closed Cup

Evaporation rate ( = 1): Not applicable Flammability (solid/gas): Data not available Explosion limits: Lower / Upper: 3.3% / 46 % Vapor pressure (mm Hg): 0.@ 138°C (280°F) Vapor density (Air = 1): Data not available Relative density (Specific gravity): 2.04-2.07 @ 21°C (670°F)

Solubility(les): inscluble in water

Partition coefficient: Data not available Auto-ignition temperature: 248°C (478°F) Decomposition temperature: Data not available

Viscosity: Data not available Molecular formula: S Molecular weight: 32 06

Section 10 Stability & Reactivity

Chemical stability: Stable Hazardous polymerization: Will not occur Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition

Incompatible materials: Reacts violently with strong oxidizing agents. Corrosive to copper and copper alloys. Damp sulfur will corrode steet,

Hazardous decomposition products: Sulfur dioxide

Section 11 Toxicological Information

Acute toxicity: Oral-rat LD50: >5000 mg/kg; Inhalation-rat LC50: 0 067 mg/L/4hours; Dermal-rabbit LD50: >2000 mg/kg

Skin corresion/irritation: Skin-rabbit - Irritant Serious eye damage/irritation: Dala not available Respiratory or skin sensitization: Dala not available Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available

Potential health effects:

Inhalation. Burning sensation, cough, sore throat. May cause inflamination of the the nose and respiratory tract

Ingestion. Burning sensation, diarrhea

Skin Redness Prolonged or repeated contact may cause dermatitis Eyes Redness pain, blurred vision

Signs and symptoms of exposure: See Potential health effects above

Additional information: RTECS #: WS4250000

Ecological Information

Toxicity to fish: Brachydanio rerio (fish, fresh water), LC50 = 860 mg/L/96 hours

Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea), EC50 = >10,000 mg/L/24 hours

Toxicity to algae: No data available

Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Transport Information (US DOT / CANADA TDG) Section 14

Domestic: UN/NA number: NA1350 Shipping name: Sulfur Hazard class: 0 Packing group: III

Exceptions: No exceptions 2016 ERG Guide # 133 Reportable Quantity: No Marine pollutant: No

UN/NA number: UN1350 Shipping name: Sulphur Hazard class: 41 Packing group: III Exceptions: Ltd Oty 5 5kg 2016 ERG Gulde # 133 Reportable Quantity: No Marine pollutant: No

Supercedes: May 12, 2016

IMO (International Maritime Organization):

Revision Date: December 19, 2016

Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the ani hydrous form is an the Invantory list Component TSCA CERLCA (RQ)

RCRA code DSL NDSL Sulfur Listed Not listed Not listed Not listed Listed

Section 18 Other Information

The information contained herem is himished without warrenty of any kind. Employers should use this information only as a supplement to other information gethered by them and must make independent determinations of suitability and completeness of information from all sources to essure proper use of these materials and the safety and health of employees. NTP. National Toxicistingly Program.

IARC International Agency for Research on Censor, OSHA. Occupational Safety and Health Administration, STOT Spiriofic Target Organ Toxicity, SC. Single Exposure. RE. Repeated Exposure.

ERG. Emergency Response Guidebook.

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