

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 10/16/2020 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Substance

Substance name : SRx 99.9, Sulfur 99.9

CAS-No. : 7704-34-9

Formula : S BIG no : 10085

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Two Rivers Terminal 3300 North Glade Road

P.O. Box 2327

Pasco, Wa. 99302 - USA

T 509-547-7776 - F 509-546-9508

1.4. Emergency telephone number

Emergency number : 24 Hour Emergency HAZMAT Response: (800) 229-5252; EPA National Response Center

(800) 424-8802

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin corrosion/irritation H315 Causes skin irritation

Category 2

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H315 - Causes skin irritation

Precautionary statements (GHS-US) : P264 - Wash skin thoroughly after handling

P280 - Wear eye protection, protective clothing, protective gloves

P302+P352 - If on skin: Wash with plenty of water P321 - Specific treatment (see water on this label)

P332+P313 - If skin irritation occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name	Product identifier	%	GHS-US classification
SRx 99.9, Sulfur 99.9 (Main constituent)	(CAS-No.) 7704-34-9	100	Skin Irrit. 2, H315

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Full text of hazard classes and H-statements : see section 16

3.2 Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact

: Wash immediately with lots of water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.

First-aid measures after eye contact

: Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

First-aid measures after ingestion

: Rinse mouth with water. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/injuries after inhalation

: AFTER INHALATION OF DUST: Irritation of the respiratory tract. Coughing. Possible inflammation of the respiratory tract. Irritation of the nasal mucous membranes. Runny nose.

Symptoms/injuries after skin contact

: Tingling/irritation of the skin.

Symptoms/injuries after eye contact

: Irritation of the eye tissue. Lacrimation. FOLLOWING SYMPTOMS MAY APPEAR LATER: Visual disturbances.

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Symptoms/injuries after ingestion

: AFTER INGESTION OF HIGH QUANTITIES: Change in the haemogramme/blood composition. Headache. Vomiting. Abdominal pain. Diarrhoea.

Chronic symptoms

: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation. Affection of the nasal septum. Possible inflammation of the respiratory tract. Risk of pneumonia. Respiratory difficulties. Conjunctivitis. Gastrointestinal complaints.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media

: Preferably: water spray. Polyvalent foam. ABC powder. Carbon dioxide. Sand/earth.

Unsuitable extinguishing media

: Solid water jet ineffective as extinguishing medium.

5.2. Specific hazards arising from the chemical

Fire hazard

: DIRECT FIRE HAZARD: Combustible. INDIRECT FIRE HAZARD: Temperature above flashpoint: higher fire/explosion hazard. May build up electrostatic charges: risk of ignition. Reactions involving a fire hazard: see "Reactivity Hazard".

Explosion hazard

DIRECT EXPLOSION HAZARD: Fine dust is explosive with air. INDIRECT EXPLOSION HAZARD: Dust cloud can be ignited by a spark. Reactions with explosion hazards: see "Reactivity Hazard".

5.3. Special protective equipment and precautions for fire-fighters

Precautionary measures fire

: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.

Firefighting instructions

: Dilute toxic gases with water spray.

Protection during firefighting

Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment

: Gloves. Face-shield. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Dust cloud production: dust-tight suit. See "Material-Handling" to select protective clothing.

Emergency procedures

: Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.

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Measures in case of dust release

: In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows. In case of dust production: stop engines and no smoking. In case of dust production: no naked flames or sparks. Dust: spark-/explosionproof appliances/lighting equipment.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

For containment

: Contain released product, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray. Provide equipment/receptacles with earthing. Powdered form: no compressed air for pumping over spills.

Methods for cleaning up

Stop dust cloud by humidifying. Scoop solid spill into closing containers. See "Material-handling" for suitable container materials. Powdered: do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Powdered form: no compressed air for pumping over. Avoid raising dust. Take precautions against electrostatic charges. Keep away from naked flames/heat. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

7.2. Conditions for safe storage, including any incompatibilities

Heat-ignition

: KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.

Information on mixed storage

: KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) bases. oils-fats. metals.

halogens. water/moisture.

Storage area

: Store in a dry area. Keep container in a well-ventilated place. Fireproof storeroom. Provide the

tank with earthing. Meet the legal requirements.

Special rules on packaging

: SPECIAL REQUIREMENTS: hermetical. watertight. dry. clean. correctly labelled. meet the

legal requirements. Secure fragile packagings in solid containers.

Packaging materials

: SUITABLE MATERIAL: stainless steel. aluminium. plastics. paper. cardboard. textile.

MATERIAL TO AVOID: copper.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

SDv 00 0 Sulfur 00 0 (7704 34 0)

31X 99.9, 3dildi 99.9 (1104-34-9)			
ACGIH	ACGIH TWA (mg/m³)	3 mg/m³	

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

Materials for protective clothing:

GIVE GOOD RESISTANCE: butyl rubber. PVC. neoprene

Hand protection:

Gloves

Eye protection:

Face shield. In case of dust production: protective goggles

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Skin and body protection:

Protective clothing. In case of dust production: head/neck protection

Respiratory protection:

Dust production: dust mask with filter type P2. On heating: gas mask with filter type E

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Solid in various shapes. Crystalline powder.

: Pure substance: light yellow Unpurified: yellow to brown

: Pure substance is odourless Commercial/unpurified substance: Unpleasant odour

Odor threshold: No data availablepH: No data availableMelting point: 112 - 119 °CFreezing point: No data available

Boiling point : 445 °C

Critical temperature : 1040 °C

Critical pressure : 117508 hPa

Flash point : 168 - 207 °C

Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : No data available

Vapor pressure : 2 E-6 Vapor pressure at 50 °C : 25 E-6

Relative vapor density at 20 °C : No data available

Relative density : 2

Molecular mass : 32.06 g/mol

Solubility : Insoluble in water. Substance sinks in water. Soluble in ethanol. Soluble in ether. Soluble in

chloroform. Soluble in tetrachloromethane. Soluble in toluene. Soluble in aniline. Soluble in

carbondisulfide. Soluble in ammonia. Soluble in turpentine. Soluble in oil.

Log Pow : 0.23 (Estimated value)

Auto-ignition temperature : 235 °C

Decomposition temperature : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosion limits : 35 - 1400 g/m³
Explosive properties : No data available
Oxidizing properties : No data available

9.2. Other information

Saturation concentration : 0.000003 g/m³ VOC content : Not applicable

Other properties : May generate electrostatic charges.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with water (moisture): release of corrosive products. On burning: release of toxic and corrosive gases/vapours (sulphur dioxide). Violent to explosive reaction with many compounds e.g.: with (some) metal powders. With (some) metals and their compounds. And with (some) halogens. Reacts violently with (strong) oxidizers: heat release resulting in increased fire or explosion risk. Oxidizes slowly in dry air: release of (highly) toxic gases/vapours (sulphur dioxide). Oxidizes slowly under increased oxygen concentration: release of (highly) toxic gases/vapours (sulphur dioxide).

10.2. Chemical stability

Unstable on exposure to moisture. Unstable on exposure to air.

10.3. Possibility of hazardous reactions

No additional information available

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10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

SRx 99.9, Sulfur 99.9 (7704-34-9)		
LD50 oral rat	> 5000 mg/kg (Rat)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)	
LC50 inhalation rat (mg/l)	> 9.23 mg/l/4h (Rat)	

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity – single exposure : Not classified
Specific target organ toxicity – repeated : Not classified

exposure

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

Symptoms/injuries after inhalation : AFTER INHALATION OF DUST: Irritation of the respiratory tract. Coughing. Possible

inflammation of the respiratory tract. Irritation of the nasal mucous membranes. Runny nose.

 $Symptoms/injuries \ after \ skin \ contact \\ \hspace{2.5cm} : \ Tingling/irritation \ of \ the \ skin.$

Symptoms/injuries after eye contact : Irritation of the eye tissue. Lacrimation. FOLLOWING SYMPTOMS MAY APPEAR LATER:

Visual disturbances.

Symptoms/injuries after ingestion : AFTER INGESTION OF HIGH QUANTITIES: Change in the haemogramme/blood composition.

Headache. Vomiting. Abdominal pain. Diarrhoea.

Chronic symptoms : ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation. Affection of

the nasal septum. Possible inflammation of the respiratory tract. Risk of pneumonia.

Respiratory difficulties. Conjunctivitis. Gastrointestinal complaints.

SECTION 12: Ecological information

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Ecology - air : Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). TA-Luft Klasse 5.2.1.

Ecology - water : No water pollutant (surface water). Slightly harmful to fishes (LC50(96h) 100-1000 mg/l).

Slightly harmful to invertebrates (Daphnia). Inhibition of activated sludge.

SRx 99.9, Sulfur 99.9 (7704-34-9)		
LC50 fish 1	866 mg/l (96 h; Brachydanio rerio)	
LC50 fish 2	> 100 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
TLM fish 1	10000 ppm (96 h; Gambusia affinis)	
Threshold limit other aquatic organisms 1	> 10000 mg/l (24 h; Daphnia magna)	

12.2. Persistence and degradability

SRx 99.9, Sulfur 99.9 (7704-34-9)	
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. Adsorbs into the soil.
Biochemical oxygen demand (BOD)	Not applicable

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SRx 99.9, Sulfur 99.9 (7704-34-9)		
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	

12.3. Bioaccumulative potential

SRx 99.9, Sulfur 99.9 (7704-34-9)		
Log Pow	0.23 (Estimated value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	

12.4. Mobility in soil

SRx 99.9, Sulfur 99.9 (7704-34-9)	
Ecology - soil	Not toxic to bees.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse. Remove to an authorized dump. Do not discharge into surface water.

Additional information

LWCA (the Netherlands): KGA category 06. Hazardous waste according to Directive 2008/98/EC.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

TDG

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

SRx 99.9, Sulfur 99.9 (7704-34-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

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National regulations

No additional information available

15.3. US State regulations

SRx 99.9, Sulfur 99.9 (7704-34-9)	
State or local regulations	U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

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Full text of H-phrases:

	H315	Causes skin irritation	
NFF	PA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.	
NFF	PA fire hazard	: 1 - Must be preheated before ignition can occur.	
NFF	A reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	

SDS US (GHS HazCom 2012)

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