Safety Data Sheet

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 + Commission Regulation (EU) No 2015/830 of 28 May 2015

THIOPRON

Preparation Date 10-Aug-2020 **Revision date** 22-Mar-2021 **Revision Number:** 2

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the product

Product code	-
Product Description	THIOPRON
Formulation	Sulphur 825 g/L SC
Synonyms	-
Pure substance/preparation	Preparation

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended use	Fungicides
Sector(s) of use	SU1 - Agriculture, forestry, fishery
Product category	PC27 - Plant protection products

1.3 Details of the Supplier of the Safety Data Sheet

Supplier	UPL Holding bv Claudius Prinsenlaan 144a, Block A 4818 CP Breda the Netherlands tel: 0031(0)85 07123 00 fax: 0031(0)85 07123 99
E-mail address	sds.info@upl-ltd.com

1.4 Emergency telephone number

Emergency Telephone	(CARECHEM 24): +44 (0) 1235 239670
Ireland	Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: "+353 (0)1 809 2166

Section 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation Category 2 - (H319)

Skin sensitization Category 1 - (H317)

Additional information
For the full text of the H-Statements mentioned in this Section, see Section 16

2.2 Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]



signal word WARNING

Hazard Statements
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation

Precautionary statements
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P102 - Keep out of reach of children
P270 - Do not eat, drink or smoke when using this product
P302 + P352 - IF ON SKIN: Wash with plenty of water and soap
P272 - Contaminated work clothing should not be allowed out of the workplace
P363 - Wash contaminated clothing before reuse

EU Specific Hazard Statements
EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

2.3 Other Hazards

Contains: 1,2-Benzisothiazolin-3-one

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Chemical name	CAS No	EC No	Index-No.	REACH No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Note:
Sulfur	7704-34-9	231-722-6	016-094-00-1	-	50 - 60	Skin Irrit. 2 (H315)	(1)
Alkylnaphthalenesulfonic acid, polymer with formaldehyde, sodium salt	68425-94-5	614-476-8	-	-	1 - 5	Eye Irrit. 2 (H319)	
1,2-Benzisothiazolin-3-one	2634-33-5	220-120-9	613-088-00-6	-	< 1	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)	
Sodium hydroxide	1310-73-2	215-185-5	011-002-00-6	01-2119457892-27	< 1	Skin Corr. 1A (H314)	(1)
Hydrogen sulfide	7783-06-4	231-977-3	016-001-00-4	01-2119445737-29	< 1	Press. Gas Flam. Gas 1 (H220) Acute Tox. 2 (H330) Aquatic Acute 1 (H400)	(1)

Full text of H- and EUH-phrases: see section 16

NOTE

(1) : Avoid exceeding of the given occupational exposure limits (see section 8)

Section 4: FIRST AID MEASURES

4.1 Description of first-aid measures

General advice
• In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Inhalation
• Move to fresh air
• Call a POISON CENTER or doctor if you feel unwell

Eye contact
• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
• If eye irritation persists, consult a specialist

Skin contact
• Wash off immediately with plenty of water
• If symptoms persist, call a physician

Ingestion
• Rinse mouth with water
• Call a POISON CENTER or doctor if you feel unwell

Self-protection of the first aider
• First aider: Pay attention to self-protection

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms
• No information available

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to physicians
• Treat symptomatically

Section 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media
• As aqueous suspension ignition and fire is not likely
• Use materials appropriate for surrounding fire.

Unsuitable extinguishing media
• No information available

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products
• No information available

5.3 Advice for Firefighters

• Wear self-contained breathing apparatus and protective suit

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Personal Precautions

- Avoid contact with skin and eyes
- Wear protective gloves/protective clothing and eye/face protection

Emergency procedures

- Evacuate personnel to safe areas

Emergency responder

- Use personal protective equipment as required
- Evacuate personnel to safe areas

6.2 Environmental Precautions

- Prevent further leakage or spillage if safe to do so
- Do not allow material to contaminate ground water system
- Do not flush into surface water or sanitary sewer system

6.3 Methods and material for containment and cleaning up

Methods for containment

- Prevent further leakage or spillage if safe to do so

Methods for cleaning up

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

Prevention of secondary hazards

- Clean contaminated objects and areas thoroughly observing environmental regulations

6.4 Reference to other sections

- No information available

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling
• Provide adequate ventilation
• Use only outdoors or in a well-ventilated area
• Ensure that eyewash stations and safety showers are close to the workstation location

General hygiene considerations
• Do not eat, drink or smoke when using this product
• Keep away from food, drink and animal feeding stuffs
• Avoid contact with skin and eyes
• Wash hands before breaks and immediately after handling the product
• Remove contaminated clothing and protective equipment before entering eating areas

7.2 Conditions for safe storage, including any incompatibilities

• Keep at temperatures above : 0°C
• Keep only in the original container/package in a cool well-ventilated place
• Keep/store only in original container
• Keep away from heat
• Store away from frost.

7.3 Specific end uses

• Fungicides
• Please refer to the product labeling and packaging for information about appropriate use

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits

Chemical name	Eu	United Kingdom	France	Spain	Germany
Sulfur 7704-34-9	10mg/m³	-	-	-	-
Sodium hydroxide 1310-73-2	-	STEL: 2 mg/m³	TWA: 2 mg/m³	STEL: 2 mg/m³	-
Hydrogen sulfide 7783-06-4	(3rd:) TWA 5 ppm (3rd:) TWA 7 mg/m³ (3rd:) STEL 10 ppm (3rd:) STEL 14 mg/m³	STEL: 10 ppm STEL: 14 mg/m³ TWA: 5 ppm TWA: 7 mg/m³	TWA: 5 ppm TWA: 7 mg/m³ STEL: 10 ppm STEL: 14 mg/m³	STEL: 10 ppm STEL: 14 mg/m³ TWA: 5 ppm TWA: 7 mg/m³	TWA: 5 ppm TWA: 7.1 mg/m³
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Sodium hydroxide 1310-73-2	-	Ceiling: 2 mg/m³	-	Ceiling: 2 mg/m³	Ceiling: 2 mg/m³
Hydrogen sulfide 7783-06-4	TWA: 5 ppm TWA: 7 mg/m³ STEL: 10 ppm STEL: 14 mg/m³	STEL: 10 ppm STEL: 14 mg/m³ TWA: 5 ppm TWA: 7 mg/m³	TWA: 2.3 mg/m³	TWA: 5 ppm TWA: 7 mg/m³ STEL: 10 ppm STEL: 14 mg/m³	TWA: 5 ppm TWA: 7 mg/m³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Sodium hydroxide 1310-73-2	STEL 4 mg/m³ TWA: 2 mg/m³	STEL: 2 mg/m³ TWA: 2 mg/m³	STEL: 1 mg/m³ TWA: 0.5 mg/m³	Ceiling: 2 mg/m³	STEL: 2 mg/m³
Hydrogen sulfide 7783-06-4	STEL 5 ppm STEL 7 mg/m³ TWA: 5 ppm	STEL: 10 ppm STEL: 14.2 mg/m³ TWA: 5 ppm	STEL: 14 mg/m³ TWA: 7 mg/m³	TWA: 5 ppm TWA: 7 mg/m³ Ceiling: 10 ppm	TWA: 5 ppm TWA: 7 mg/m³ STEL: 14 mg/m³

	TWA: 7 mg/m³ Ceiling 5 ppm Ceiling 7 mg/m³	TWA: 7.1 mg/m³		Ceiling: 14 mg/m³	STEL: 10 ppm

8.2 Exposure Controls

Engineering controls
• Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

Eye/face protection
• Safety glasses with side-shields
• Eye protection must conform to standard EN 166

Hand protection
• Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed.
Wash hands frequently and always before eating, drinking, smoking or using the toilet.
• Gloves must conform to standard EN 374
• Wear protective nitrile rubber gloves
• Rate of permeability : > 480 min
• Glove thickness : > 0,4 mm

Skin and body protection
• Wear standard coveralls and Category 3 Type 4 suit.
If there is a risk of significant exposure, consider a higher protective type suit.
Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

Respiratory protection
• When workers are facing concentrations above the exposure limit they must use appropriate certified respirators
• Suitable mask with particle filter P3 (European Norm 143)

General hygiene considerations
• Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls
• Local authorities should be advised if significant spillages cannot be contained
• Do not allow into any sewer, on the ground or into any body of water
• Prevent product from entering drains

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	White to light yellow Opaque
Physical state	Liquid suspension concentrate (SC)
Odor	paint like

Property	VALUES	Remarks/ Method
pH	6.99	20°C (1% solution) CIPAC MT 75.3
Melting point/freezing point	0 °C	
Boiling Point/Range	No information available	
Flash Point	> 100 °C	EC A.9
Flammability (solid, gas)	liquid: Not applied	
vapor density	negligible	
Relative Density	1,44 g/mL	EC A.3
Solubility in Other Solvents	Dispersible	
Partition coefficient: n-octanol/water	No information available	
Autoignition temperature	> 230 °C	EC A.15
Decomposition temperature	No information available	
Viscosity	89 mPas	Dynamic viscosity, 20 °C, OECD 114
Oxidizing properties	Non oxidizing	Expert statement
Explosive properties	Not an explosive	Expert statement

9.2 OTHER INFORMATION

VOC Content No information available

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

• No information available

10.2 Chemical stability

• Stable under normal conditions

10.3 Possibility of hazardous reactions

• None under normal processing

10.4 Conditions to avoid

• Keep away from open flames, hot surfaces and sources of ignition

10.5 Incompatible materials

• Strong oxidizing agents
• Strong acids

10.6 Hazardous decomposition products

• No information available

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute toxicity

LD50 Oral > 2000 mg/kg (rat) - OECD 423, EC B.1.tris
LD50 Dermal > 2000 mg/kg (rat) - OECD 402, EC B.3

Skin corrosion/irritation
• No skin irritation, OECD 404

Serious eye damage/eye irritation
• Irritating to eyes, OECD 405

Respiratory or skin sensitization
• skin: Sensitization, OECD 406

Germ cell mutagenicity
• Contains no ingredient listed as a mutagen

Carcinogenicity
• There are no known carcinogenic chemicals in this product

Reproductive toxicity
• This product does not contain any known or suspected reproductive hazards

Specific target organ toxicity (single exposure)
• Not classified

Specific target organ toxicity (repeated exposure)
• Not classified

Aspiration hazard
• No information available

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

EC50/96h/algae = 54.33 mg/L
EC50/24h/daphnia = > 77.5 mg/l
LC50/fish/96 h = > 78.3 mg/L

12.2 Persistence and Degradability

• This substance is not considered to be persistent

12.3 Bioaccumulative Potential

• Does not bioaccumulate

Chemical name	Log Pow
1,2-Benzisothiazolin-3-one	1.3
Hydrogen sulfide	0.45

12.4 Mobility in Soil

• Mobile

12.5 Results of PBT and vPvB Assessment

• This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

12.6 Other Adverse Effects

• No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Waste from residues/unused products
• Dispose of in accordance with local regulations

Contaminated packaging
• Empty containers should be taken for local recycling, recovery or waste disposal

EWC waste disposal No
• 020108 - agrochemical waste containing dangerous substances

OTHER INFORMATION
• According to the European Waste Catalogue, Waste Codes are not product specific, but application specific

Section 14: TRANSPORT INFORMATION

14.1 UN Number
- *ADR, IMDG, IATA :* Not regulated

14.2 UN proper shipping name
- *ADR :* Not regulated
- *IMDG :* Not regulated
- *IATA :* Not regulated

14.3 Transport Hazard Class(es)
Hazard class
- ADR, IMDG, IATA : Not regulated

Subsidiary class
- ADR, IMDG, IATA : Not applicable

14.4 Packing Group
- ADR, IMDG, IATA : Not regulated

14.5 Environmental Hazards
- *ADR, IATA :* Not regulated
- IMDG : Not regulated

14.6 Special Precautions for User
Special Provisions
- ADR : Not regulated
- IMDG : Not regulated
- IATA : Not regulated

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
- Not applicable

Section 15: REGULATORY INFORMATION

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

Registration n° PCS N° 05496

- To avoid risks to human health and the environment, comply with the instructions for use

National regulations

15.2 Chemical safety assessment

- A chemical safety assessment has not been carried out

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3
- H302 - Harmful if swallowed
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H318 - Causes serious eye damage
- H319 - Causes serious eye irritation
- H400 - Very toxic to aquatic life
- H314 - Causes severe skin burns and eye damage
- H220 - Extremely flammable gas
- H330 - Fatal if inhaled

Classification procedure
- On basis of test data

Abbreviations and acronyms
- CLP : Classification, Labelling and Packaging = Regulation (EC) No 1272/2008
- CAS : Chemical Abstracts Service
- EC No : EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- LDx : Lethal dose to x %
- LCx : Lethal concentration to x %
- ECx : Effective concentration to x %
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
- Very Persistent and very Bioaccumulative (vPvB) Chemicals
- EWC : European Waste Catalogue
- ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
- IMDG : International Maritime Dangerous Goods Code
- IATA : International Air Transport Association

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Reason for revision Update

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 + Commission Regulation (EU) No 2015/830 of 28 May 2015

Disclaimer
The information contained is based on our knowledge of the product at the date of publishing.It applies to the PRODUCT AS SUCH. In case of formulation or mixture, make sure that a new danger will not appear.Users are advised of possible additional hazards when the product is used in applications for which it was not intended.This sheet shall only be used and duplicated for prevention and Safety purposes.For rates and use recommendations, refer to the information displayed on the packaging.It is the responsability of the handlers of the product to pass on this safety data sheet to any subsequent persons who will come into contact with the product.

End of Safety Data Sheet