

## DUTHOO Stop-Rust

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 - Product identifier

Trade name/designation DUTHOO Stop-Rust  
Chemical name Surface treatment  
Product-type Mixture  
Product code Stop-Rust

#### 1.2 - Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

- Metal surface treatment products
- For professional use only

#### 1.3 - Details of the supplier of the safety data sheet

-Duthoo Coating Concepts  
Pluim 1  
8550 Zwevegem Belgium  
Telephone : 0032 56 360774 Fax 0032 56 694760  
Website [www.duthoo.eu](http://www.duthoo.eu)  
Eddy Crepeele: 0032 56 360774/0032 471 410802 [eddy@duthoo.eu](mailto:eddy@duthoo.eu)

#### 1.4 - Emergency telephone number

- Poison Centre. Tel: (+32) 070 245 245 or (+32) 02 264 96 30 Belgium

### SECTION 2: Hazards identification

#### 2.1 - Classification of the substance or mixture

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

Not Classified	Not classified
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#### 2.2 - Label elements

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

Signal word : None  
Pictograms : None  
Hazard statements : None  
Precautionary statements : None  
EUH-phrases

EUH208	Contains 1,2-benzisothiazol-3(2H)-one1,2-benzisothiazolin-3-one (2634-33-5)   reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1), reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1) (55965-84-9) . May produce an allergic reaction.
EUH210	Safety data sheet available on request.

#### 2.3 - Other hazards

### SECTION 3: Composition / information on ingredients

#### 3.1 - Substances

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Not applicable

### 3.2 - Mixtures

Chemical name	No	%	Class(es)	Specific concentration limit
Tannins	CAS No. : 1401-55-4 Index No. : EC No. : 215-753-2	>= 1 - <= 2,5	Aquatic Chronic 3 - H412	Not applicable
1,2-benzisothiazol-3(2H)-one1 ,2-benzisothiazolin-3-one	CAS No. : 2634-33-5 Index No. : 613-088-00-6 EC No. : 220-120-9	>= 0,0035 - <= 0,035	Acute Tox. 2 Inhalation - H330 Acute Tox. 4 Oral - H302 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Eye Dam. 1 - H318 Skin Irrit. 2 - H315 Skin Sens. 1A - H317	Skin Sens. 1A - H317 : 0,036<=%<=100 M-factor: 1 / 1 ATE oral 450 ATE Inhalation Dust/Mist 0,21
reaction mass of: 5-chloro-2-methyl-4-isothiazoli n-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1), reaction mass of: 5-chloro-2-methyl-4-isothiazoli n-3-one [EC no. 247-500-7], and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)	CAS No. : 55965-84-9 Index No. : 613-167-00-5 EC No. :	>= 0,00015 - < 0,0015	Acute Tox. 2 Dermal - H310 Acute Tox. 2 Inhalation - H330 Acute Tox. 3 Oral - H301 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Eye Dam. 1 - H318 Skin Corr. 1C - H314 Skin Sens. 1A - H317	Skin Irrit. 2 - H315 : 0,06<=%<0,6 Eye Dam. 1 - H318 : 0,6<=%<100 Eye Irrit. 2 - H319 : 0,06<=%<0,6 Skin Sens. 1A - H317 : 0,0015<=%<100 Skin Corr. 1C - H314 : 0,6<=%<=100 M-factor: 100 / 100

## SECTION 4: First aid measures

### 4.1 - Description of first aid measures

<u>Following inhalation</u>	<ul style="list-style-type: none"> <li>- Provide fresh air.</li> <li>- Put victim at rest, cover with a blanket and keep warm.</li> <li>- Do not leave affected person unattended.</li> </ul>
<u>Following skin contact</u>	<ul style="list-style-type: none"> <li>- Remove contaminated, saturated clothing immediately.</li> <li>- After contact with skin, wash immediately with plenty of water and soap.</li> <li>- In case of skin irritation, consult a physician.</li> </ul>
<u>After eye contact</u>	<ul style="list-style-type: none"> <li>- In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.</li> <li>- In case of eye irritation consult an ophthalmologist.</li> </ul>
<u>After ingestion</u>	<ul style="list-style-type: none"> <li>- Rinse mouth thoroughly with water.</li> <li>- Do NOT induce vomiting.</li> <li>- When in doubt or if symptoms are observed, get medical advice.</li> </ul>

### 4.2 - Most important symptoms and effects, both acute and delayed

<u>Symptoms and effects - Following inhalation</u>	- No information available.
<u>Symptoms and effects - Following skin contact</u>	- No data available.
<u>Symptoms and effects - After eye contact</u>	- No information available.
<u>Symptoms and effects - After ingestion</u>	- No information available.

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### 4.3 - Indication of any immediate medical attention and special treatment needed

- No information available.

## SECTION 5: Firefighting measures

### 5.1 - Extinguishing media

Suitable extinguishing media

- ABC-powder
- Water mist
- Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media

- Strong water jet

### 5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture

- Hazardous combustion products

Hazardous decomposition products

- Carbon dioxide (CO<sub>2</sub>)
- Carbon monoxide
- Nitrogen oxides (NO<sub>x</sub>)

### 5.3 - Advice for firefighters

- Co-ordinate fire-fighting measures to the fire surroundings.

## SECTION 6: Accidental release measures

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

For non-emergency personnel

- Use personal protection equipment.
- Provide adequate ventilation.

For emergency responders

- Provide adequate ventilation.
- Use personal protection equipment.

### 6.2 - Environmental precautions

- Do not allow to enter into surface water or drains.
- Ensure waste is collected and contained.

### 6.3 - Methods and material for containment and cleaning up

Methods and material for containment

- Build a dam around the spill to prevent it from spreading to the surrounding area.
- Soak up inert absorbent and dispose as waste requiring special attention.

Methods and material for cleaning up

- Absorb with liquid-binding material ( e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Ventilate affected area.

Inappropriate techniques

- No information available.

### 6.4 - Reference to other sections

- Disposal: See section 13

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- Personal protection equipment: see section 8
- Safe handling: See section 7

### SECTION 7: Handling and storage

#### 7.1 - Precautions for safe handling

##### Recommendation

- Avoid:Eye contact
- Avoid:Skin contact
- Use only in well-ventilated areas.
- Wash hands before breaks and after work.

##### Advices on general occupational hygiene

- Avoid contact with skin, eyes and clothes.
- Wash hands before breaks and after work.
- Work in well-ventilated zones or use proper respiratory protection.
- Wash contaminated clothing prior to re-use.

#### 7.2 - Conditions for safe storage, including any incompatibilities

- Keep/store only in original container.
- Protect against: Cold
- Protect against:Heat

#### 7.3 - Specific end use(s)

- Observe technical data sheet.

### SECTION 8: Exposure controls/personal protection

#### 8.1 - Control parameters

- No data available.

##### DNEL / PNEC

##### **1,2-benzisothiazol-3(2H)-one1,2-benzisothiazolin-3-one (2634-33-5)**

Type	Value	User	Effect
DNEL long-term inhalative	1,2 mg/m <sup>3</sup>	Consumers	Systemic
DNEL long-term inhalative	6,81 mg/m <sup>3</sup>	Workers	Systemic
DNEL long-term dermal	0,345 mg/kg bw/day	Consumers	Systemic
DNEL long-term dermal	0,966 mg/kg bw/day	Workers	Systemic
PNEC aquatic, freshwater	0,00403 mg/l		
PNEC aquatic, marine water	0,0004 mg/l		
PNEC sediment, freshwater	0,0499 mg/kg		
PNEC sediment, marine water	0,00499 mg/kg		
PNEC soil	3 mg/kg		
PNEC sewage treatment plant (STP)	1,03 mg/l		

#### 8.2 - Exposure controls

##### Appropriate engineering controls

- Provide adequate ventilation.

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Individual protection measures, such as personal protective equipment

- Protective gloves

- Eye protection

- Suitable protective clothing: lab coat



Environmental exposure controls

- No data available.

### SECTION 9: Physical and chemical properties

#### 9.1 - Information on basic physical and chemical properties

<u>Physical state</u> <u>Colour</u>	<u>Liquid</u> <u>characteristic</u>	<u>Appearance</u> <u>Odour</u>	<u>Liquid</u> <u>characteristic</u>
Odour threshold		No data available	
pH		2,5	
Melting point		No data available	
Freezing point		No data available	
Boiling point		No data available	
Flash point		No data available	
Evaporation rate		No data available	
flammability		No data available	
Lower explosion limit		No data available	
Upper explosion limit		No data available	
Vapour pressure		No data available	
Vapour density		No data available	
Relative density		No data available	
Density		1,2 kg/l	
Solubility (Water)		No data available	
Solubility (Ethanol)		No data available	
Solubility (Acetone)		No data available	
Solubility (Organic solvents)		No data available	
Log KOC		No data available	
Auto-ignition temperature		No data available	
Decomposition temperature		No data available	
Kinematic viscosity		No data available	
Dynamic viscosity		No data available	
<u>Particle characteristics</u>			
Particle size		No data available	

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Dustiness	No data available
Specific surface area	No data available
Shape	No data available

### 9.2 - Other information

VOC content	0 %
Minimum ignition energy	No data available
Conductivity	No data available
Refractive index	No data available
Solids content	No data available
Surface tension	No data available
Saturation concentration	No data available

- No data available.

## SECTION 10: Stability and reactivity

### 10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

### 10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

### 10.4 - Conditions to avoid

- Stable under recommended storage and handling conditions.
- protect against sunlight and frost

### 10.5 - Incompatible materials

- avoid contact with other chemicals

### 10.6 - Hazardous decomposition products

- Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

### 11.1 - Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - Not classified

Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

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- No data available.

### Toxicity : Substances

#### Tannins (1401-55-4)

LD50 oral (rat)	2260 mg/kg
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#### 1,2-benzisothiazol-3(2H)-one 1,2-benzisothiazolin-3-one (2634-33-5)

LD50 oral (rat)	490 mg/kg
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LD50 dermal (rat)	4115 mg/kg
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LC50 inhalation (rat)	0,4 ppmV
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reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1), reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1) (55965-84-9)

LD50 oral (rat)	64 mg/kg
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LD50 dermal (rabbit)	78 mg/kg
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LC50 inhalation (rat)	0,33 ppmV
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### Skin corrosion/irritation

- Not classified

- No data available.

### Serious eye damage/eye irritation

- Not classified

- No data available.

### Respiratory or skin sensitisation

- Not classified

- No data available.

### Germ cell mutagenicity

- Not classified

- No data available.

### Carcinogenicity

- Not classified

- No data available.

### Reproductive toxicity

- Not classified

- No data available.

### STOT-single exposure

- Not classified

- No data available.

### STOT-repeated exposure

- Not classified

- No data available.

### Aspiration hazard

- Not classified

### 11.2 - Information on other hazards

- No information available.

## SECTION 12: Ecological information

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### 12.1 - Toxicity

#### Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

#### Toxicity : Substances

1,2-benzisothiazol-3(2H)-one1,2-benzisothiazolin-3-one (2634-33-5)	
EC50 48 hr crustacea	1,1 mg/l < V < 4,4 mg/l
LC50 96 hr fish	0,8 mg/l < V < 2,18 mg/l
ErC50 algae	0,1087 mg/l
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1), reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1) (55965-84-9)	
EC50 48 hr crustacea	0,16 mg/l
LC50 96 hr fish	0,19 mg/l
ErC50 algae	0,027 mg/l

- No data available.

### 12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No data available.

### 12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No data available.

### 12.4 - Mobility in soil

- No data available.

### 12.5 - Results of PBT and vPvB assessment

### 12.6 - Endocrine disrupting properties

- No information available.

### 12.7 - Other adverse effects

- No data available.



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### SECTION 13: Disposal considerations

#### 13.1 - Waste treatment methods

Waste treatment methods - No information available.

Sewage disposal - No information available.

Special precautions for waste treatment - No information available.

Community or national or regional provisions - Dispose of waste according to applicable legislation.

Waste codes / waste designations according to Regulation 2014/955/UE 20 01 14\* - Acids

### SECTION 14: Transport information

#### 14.1 - UN number or ID number

Not applicable

#### 14.2 - UN proper shipping name

Not applicable

#### 14.3 - Transport hazard class(es)

Not applicable

#### 14.4 - Packing group

Not applicable

#### 14.5 - Environmental hazards

Not applicable

#### 14.6 - Special precautions for user

Not applicable

#### 14.7 - Maritime transport in bulk according to IMO instruments

Not applicable

### SECTION 15: Regulatory information

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

Substances REACH candidates None

Substances Annex XIV None

Substances Annex XVII None

VOC content 0 %

#### 15.2 - Chemical Safety Assessment

### SECTION 16: Other information

SDS versions

## DUTHOO Stop-Rust

Version	Issue date	Author	Description of the amendments
1	28/03/2025		

### Abbreviations and acronyms

- ADR: The Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE: Acute Toxicity Estimate.
- LC50: Lethal Concentration to 50 % of a test animals.
- LOEC: Lowest Observed Effect Concentration.
- LD50: Lethal Dose to 50% of a test animals.
- LOEL: Lowest Observed Adverse Effect Level.
- DNEL: Derived no-effect level.
- EC50: Effective concentration of the substance that causes adverse effects in 50% of test animals.
- IATA: International Air Transport Association.
- IMDG: International Maritime Dangerous Goods.
- EC No: European Community number
- NOEC: No Observed Effect Concentration.
- NOEL: No observable effect level.
- CAS No.: Chemical Abstracts Service number.
- ICAO: International Civil Aviation Organization
- PBT: Persistent, Bioaccumulative and Toxic.
- PNEC: Predicted no-effect concentration.
- RID: International Carriage of Dangerous Goods by Rail.
- STEL: Short-term exposure limit
- TWA: Time weighted average
- OEL: Occupational exposure limit.
- vPvB: very Persistent and very Bioaccumulative.

### Texts of the regulatory sentences

Acute Tox. 2 Dermal	Acute toxicity (dermal) - Category 2
Acute Tox. 2 Inhalation	Acute toxicity (inhalative) - Category 2
Acute Tox. 3 Oral	Acute toxicity (oral) - Category 3
Acute Tox. 4 Oral	Acute toxicity (oral) - Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Aquatic Acute 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Aquatic Chronic 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Aquatic Chronic 3
Eye Dam. 1	Serious eye damage, Category 1
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.

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H410	Very toxic to aquatic life with long lasting effects.
Not Classified	Not classified
Skin Corr. 1C	Skin corrosion, Category 1C
Skin Irrit. 2	Irritation, Category 2
Skin Sens. 1A	Skin sensitization - Category 1A

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