

# Safety Data Sheet

## SOCOSTRIP A0212 SR

Safety Data Sheet date: 12/14/2023, version 1

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### 1. Identification

GHS Product identifier

Mixture identification:

Trade name: SOCOSTRIP A0212 SR

Other means of identification

SDS code: P50215

Recommended use and restrictions on use

Recommended use:

Solvent

Industrial uses

Restrictions on use:

No uses advised against are identified.

Supplier's details

**Manufacturers:**

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### 2. Hazard identification

Classification of the hazardous product

The product is not classified as hazardous according to WHMIS 2015.

GHS label elements, including precautionary statements

Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

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Special provisions

None

Other hazards

None

Ingredient(s) with unknown acute toxicity

None.

**3. Composition/Information on ingredients**

Substances

N.A.

Mixtures

Hazardous components within the meaning of WHMIS 2015 and related classification:

>= 15% - < 40% benzyl alcohol

REACH No.: 01-2119492630-38, Index number: 603-057-00-5, CAS: 100-51-6, EC: 202-859-9

- ⚠ A.1/4/Dermal Acute Tox. 4 H312
- ⚠ A.1/4/Oral Acute Tox. 4 H302
- ⚠ A.1/4/Inhal Acute Tox. 4 H332
- ⚠ A.3/2A Eye Irrit. 2A H319

>=5% - < 10% BENZYL FORMATE

REACH No.: Exempted-----, CAS: 104-57-4, EC: 203-214-4

- ⚠ A.1/4/Dermal Acute Tox. 4 H312
- ⚠ A.1/4/Oral Acute Tox. 4 H302

>=5% - < 10% formic acid

REACH No.: 01-2119491174-37, Index number: 607-001-00-0, CAS: 64-18-6, EC: 200-579-1

- ⚠ A.3/1 Eye Dam. 1 H318
- ⚠ B.6/3 Flam. Liq. 3 H226
- ⚠ A.1/4/Oral Acute Tox. 4 H302
- ⚠ A.2/1A Skin Corr. 1A H314
- ⚠ A.1/3/Inhal Acute Tox. 3 H331

Specific Concentration Limits:

- 2% <= C < 9,9%: Skin Irrit. 2 H315
- 2% <= C < 9,9%: Eye Irrit. 2A H319
- C >= 78,6%: Acute Tox. 3 H331
- 75% <= C < 78,5%: Acute Tox. 4 H332
- C >= 90%: Skin Corr. 1A H314
- 10% <= C < 89,9%: Skin Corr. 1B H314

>= 1% - < 5% Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

REACH No.: 01-2119457273-39, EC: 918-481-9

- ⚠ A.10/1 Asp. Tox. 1 H304
- B.6/4 Flam. Liq. 4 H227

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- ⚠ A.8/3 STOT SE 3 H336
- ⚠ CAN-HAE/C2 Aquatic Chronic 2 H411

>= 1% - < 5% Tetrapotassium pyrophosphate

REACH No.: 01-2119489369-18, CAS: 7320-34-5, EC: 230-785-7

- ⚠ A.2/2 Skin Irrit. 2 H315
- ⚠ A.3/2A Eye Irrit. 2A H319
- ⚠ A.8/3 STOT SE 3 H335

>= 0.1% - < 1% benzothiazole-2-thiol

REACH No.: 01-2119485805-26, Index number: 613-108-00-3, CAS: 149-30-4, EC: 205-736-8

- ⚠ A.4.2/1 Skin Sens. 1 H317
- ⚠ CAN-HAE/A1 Aquatic Acute 1 H400 M=1.
- ⚠ CAN-HAE/C1 Aquatic Chronic 1 H410 M=1.

The actual concentration of the components listed above is withheld as a trade secret.

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#### 4. First-aid measures

Description of necessary first-aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not induce vomiting. Obtain a medical examination.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

None

Indication of immediate medical attention and special treatment needed, if necessary

Treatment:

No particular treatment.

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#### 5. Fire-fighting measures

Suitable and unsuitable extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media

None in particular.

Specific hazards arising from the hazardous product

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products:

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None

Explosive properties: N.A.

Oxidizing properties: N.A.

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

Methods and material for containment and cleaning up

Wash with plenty of water.

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#### 7. Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not use on extensive surface areas in premises where there are occupants.

Don't use empty container before they have been cleaned.

Before making transfer operations, ensure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

Storage temperature:

Store at ambient temperature.

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#### 8. Exposure controls/personal protection

Control parameters

benzyl alcohol - CAS: 100-51-6

- OEL Type: National - TWA(8h): 22 mg/m<sup>3</sup>, 5 ppm - Notes: Germany - DFG, H, Y,11 (Skin)

- OEL Type: National - TWA: 5 mg/m<sup>3</sup> - Notes: Bulgaria

- OEL Type: National - TWA: 40 mg/m<sup>3</sup> - Notes: Czech Republic

- OEL Type: National - TWA: 45 mg/m<sup>3</sup>, 10 ppm - Notes: Finland

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- OEL Type: National - TWA: 5 mg/m<sup>3</sup> - Notes: Latvia
  - OEL Type: National - TWA: 5 mg/m<sup>3</sup> - Notes: Lithuania (skin)
  - OEL Type: National - TWA: 240 mg/m<sup>3</sup> - Notes: Poland
  - OEL Type: National - TWA: 22 mg/m<sup>3</sup>, 5 ppm - STEL: 44 mg/m<sup>3</sup>, 10 ppm - Notes: Slovenia (Potential for cutaneous absorption)
  - OEL Type: National - TWA: 22 mg/m<sup>3</sup>, 5 ppm - Notes: Switzerland (Skin notation)
- formic acid - CAS: 64-18-6
- OEL Type: National - TWA(8h): 9 mg/m<sup>3</sup>, 5 ppm - Behaviour: Indicative - Notes: France VLEP
  - OEL Type: EU - TWA(8h): 9 mg/m<sup>3</sup>, 5 ppm
  - OEL Type: ACGIH - TWA(8h): 5 ppm - STEL: 10 ppm - Notes: URT, eye, and skin irr
- Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics
- OEL Type: National - TWA: 1000 mg/m<sup>3</sup> - STEL: 1500 mg/m<sup>3</sup> - Behaviour: Indicative - Notes: France
  - OEL Type: National - TWA: 1200 mg/m<sup>3</sup>, 184 ppm - Notes: ExxonMobil
  - OEL Type: EU - TWA: 1050 mg/m<sup>3</sup> - Notes: EU HSPA
  - OEL Type: National - TWA: 25 ppm - Notes: Denmark
  - OEL Type: National - TWA: 300 mg/m<sup>3</sup>, 50 ppm - Notes: Germany
  - OEL Type: National - TWA: 300 mg/m<sup>3</sup> - STEL: 900 mg/m<sup>3</sup> - Notes: Poland
  - OEL Type: National - TWA: 150 mg/m<sup>3</sup>, 25 ppm - STEL: 300 mg/m<sup>3</sup>, 50 ppm - Notes: Sweden
  - OEL Type: National - TWA: 300 mg/m<sup>3</sup>, 50 ppm - STEL: 600 mg/m<sup>3</sup>, 100 ppm - Notes: Switzerland
  - OEL Type: National - TWA: 300 mg/m<sup>3</sup> - STEL: 900 mg/m<sup>3</sup> - Notes: Poland (NDS, NDSCh)

#### DNEL Exposure Limit Values

- benzyl alcohol - CAS: 100-51-6
- Worker Industry: 40 mg/kg b.w./day - Consumer: 20 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Short Term, systemic effects
- Worker Industry: 110 mg/m<sup>3</sup> - Consumer: 27 mg/kg b.w./day - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
- Worker Industry: 8 mg/kg b.w./day - Consumer: 4 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
- Worker Industry: 22 mg/m<sup>3</sup> - Consumer: 5.4 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
- Consumer: 20 mg/kg b.w./day - Exposure: Human Oral - Frequency: Short Term, systemic effects
- formic acid - CAS: 64-18-6
- Worker Industry: 9.5 mg/m<sup>3</sup> - Consumer: 3 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
- Worker Industry: 19 mg/m<sup>3</sup> - Consumer: 9.5 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
- Worker Industry: 9.5 mg/m<sup>3</sup> - Consumer: 3 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects
- Worker Industry: 19 mg/m<sup>3</sup> - Consumer: 9.5 mg/m<sup>3</sup> - Exposure: Human Inhalation -

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Frequency: Short Term, local effects

Tetrapotassium pyrophosphate - CAS: 7320-34-5

Worker Professional: 2.79 mg/m<sup>3</sup> - Consumer: 0.68 mg/l - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

Consumer: 70 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

benzothiazole-2-thiol - CAS: 149-30-4

Consumer: 10 mg/kg b.w./day - Exposure: Human Oral - Frequency: Short Term, systemic effects

Consumer: 1.25 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 70.4 mg/m<sup>3</sup> - Consumer: 17.6 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 8.8 mg/m<sup>3</sup> - Consumer: 2.2 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 5 mg/kg b.w./day - Consumer: 2.5 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 40 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Consumer: 1.25 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 10 mg/kg b.w./day - Exposure: Human Oral - Frequency: Short Term, systemic effects

#### PNEC Exposure Limit Values

benzyl alcohol - CAS: 100-51-6

Target: Fresh Water - Value: 1 mg/l

Target: Marine water - Value: 0.1 mg/l

Target: PNEC01 - Value: 2.3 mg/l

Target: Soil - Value: 0.456 mg/kg

Target: Freshwater sediments - Value: 5.27 mg/kg

Target: Marine water sediments - Value: 0.527 mg/kg

Target: Microorganisms in sewage treatments - Value: 39 mg/l

formic acid - CAS: 64-18-6

Target: Fresh Water - Value: 2 mg/l

Target: Marine water - Value: 0.2 mg/l

Target: Freshwater sediments - Value: 13.4 mg/kg

Target: Marine water sediments - Value: 1.34 mg/kg

Target: Soil (agricultural) - Value: 1.5 mg/kg

Target: Microorganisms in sewage treatments - Value: 7.2 mg/l

Target: Sporadic discharge - Value: 1 mg/l

Tetrapotassium pyrophosphate - CAS: 7320-34-5

Target: Fresh Water - Value: 0.05 mg/l

Target: Marine water - Value: 0.005 mg/l

Target: Freshwater sediments - Value: 0.5 mg/l - Notes: PNEC aqua (intermittente, eau douce)

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Target: Microorganisms in sewage treatments - Value: 50 mg/l  
 benzothiazole-2-thiol - CAS: 149-30-4  
 Target: Sewage treatment plant - Value: 0.3 mg/l  
 Target: Freshwater sediments - Value: 0.147 mg/kg  
 Target: Marine water sediments - Value: 0.0147 mg/kg dw  
 Target: Marine water - Value: 0.00041 mg/l  
 Target: Fresh Water - Value: 0.0041 mg/l  
 Target: Soil - Value: 0.27 mg/kg dw

Appropriate engineering controls

None

Individual protection measures, such as personal protective equipment (PPE)

Eye protection:

Safety goggles (EN 166)

Face protection shield. (EN 166)

Use closed fitting safety goggles, don't use eye lens.

Protection for skin:

Complete head, face and neck protection.

Boots (NF EN13832-3)

Protection for hands:

Suitable gloves type: NF EN374

NR (natural rubber, natural latex).

NBR (nitrile rubber).

PVC (polyvinyl chloride).

Butyl rubber (isobutylene-isoprene copolymer)

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

## 9. Physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Blue	--	--
Odour:	Pungent (formic acid) / âcre (acide formique)	--	--
Odour threshold:	N.A.	--	--
pH:	2.3	--	--

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Melting point / freezing point:	Not Relevant	--	--
Initial boiling point and boiling range:	100°C	--	--
Flash Point (°F):	185°F	--	--
Flash point (°C):	85°C	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	liquid
Upper/lower flammability or explosive limits:	1.3-47.6%	--	--
Vapour pressure:	25 hPa	--	--
Vapour density:	N.A.	--	--
Relative density:	1.04	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	>230°C	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	15 000 cps	NF EN ISO 2555 (LV4 12.0 tr/mn)	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

#### 9.2. Other information



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Properties	Value	Method:	Notes
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

Appearance and colour: Reason: N.A.

#### 10. Stability and reactivity

##### Reactivity

Stable under normal conditions

##### Chemical stability

Stable under normal conditions

##### Possibility of hazardous reactions

None

##### Conditions to avoid

Stable under normal conditions.

##### Incompatible materials

None in particular.

##### Hazardous decomposition products

None.

#### 11. Toxicological information

##### Information on toxicological effects

##### Toxicological information of the product:

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##### Acute toxicity

Not classified

Based on available data, the classification criteria are not met

##### Skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

##### Serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

##### Respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

##### Germ cell mutagenicity

Not classified

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Based on available data, the classification criteria are not met

Carcinogenicity  
Not classified  
Based on available data, the classification criteria are not met

Reproductive toxicity  
Not classified  
Based on available data, the classification criteria are not met

STOT-single exposure  
Not classified  
Based on available data, the classification criteria are not met

STOT-repeated exposure  
Not classified  
Based on available data, the classification criteria are not met

Aspiration hazard  
Not classified  
Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:  
benzyl alcohol - CAS: 100-51-6

Acute toxicity:  
Test: ATE - Route: Inhalation = 11 mg/l - Duration: 4h  
Test: LD50 - Route: Oral - Species: Rat (male) = 1620 mg/kg  
Test: ATE - Route: Oral = 1620 mg/kg  
Test: LD50 - Route: Oral - Species: Rat (Male, female) = 1620 mg/kg - Duration: 4h

Carcinogenicity:  
Route: Oral - Species: mouse (Male, female) = 400 mg/kg bw/day - Duration: 104 weeks -  
Source: OECD 451

Reproductive toxicity:  
Test: NOAEL - Route: Oral - Species: mouse (Male, female) = 200 mg/kg bw - Duration: 91 days  
Test: NOAEL (fertility) - Route: Oral - Species: mouse (Male) = 800 mg/kg - Duration: 91 days  
Test: NOAEL - Route: Oral - Species: Rat (Male, female) = 400 mg/kg bw - Duration: 91 days  
Test: NOAEL (fertility) - Route: Oral - Species: Rat (Male, female) = 800 mg/kg bw - Duration: 91 days  
Test: NOAEC - Route: Inhalation - Species: Rat (Male, female) = 1072 mg/m<sup>3</sup> - Duration: 28 days - Source: OECD 412  
Test: NOAEL (fertility) - Route: Inhalation - Species: Rat (Male, female) = 1072 mg/m<sup>3</sup> - Duration: 28 days - Source: OECD 412

STOT-repeated exposure:  
Test: NOAEC - Route: Inhalation (aerosol) - Species: Rat (Male, female) = 1072 mg/m<sup>3</sup> - Duration: 28 days - Source: OECD 412  
Test: NOAEL - Route: Oral - Species: Rat (Male, female) = 400 mg/kg - Duration: 103 weeks, 5 days/week - Source: OECD 451  
Test: NOAEC - Route: Inhalation (dust, mist) - Species: Rat (Male, female) = 1072 mg/m<sup>3</sup>

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- Duration: 28 days - Source: OECD 412

formic acid - CAS: 64-18-6

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 730 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 7.4 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rat = 940 mg/kg

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: OECD Test Guideline 401

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Source: OECD Test Guideline 402

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 5000 mg/m3 - Duration: 4h

Tetrapotassium pyrophosphate - CAS: 7320-34-5

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 1.1 mg/l

benzothiazole-2-thiol - CAS: 149-30-4

Acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 1270 mg/l - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat = 3800 mg/kg

Test: LD50 - Route: Skin - Species: mouse (Male, female) > 7940 mg/kg

Carcinogenicity:

Test: LOAEL

- Route: Oral - Species: Rat = 375 mg/kg bw - Duration: 103 weeks, 5 days/week - Source: OECD 451 - Notes: Male

Test: LOAEC - Route: Oral - Species: Rat = 188 mg/kg bw - Duration: 103 weeks, 5 days/week - Source: OECD 451 - Notes: Female

STOT-repeated exposure:

Test: LOAEL

- Route: Oral - Species: Rat = 2500 ppm - Duration: 70 days - Source: OECD 416 - Notes: Subchronic toxicity

benzyl alcohol - CAS: 100-51-6

LD50 (RABBIT) SKIN SINGLE DOSE: 2000 MG/KG

Substance(s) listed on the NTP report on Carcinogens:

None.

Substance(s) listed on the IARC Monographs:

benzothiazole-2-thiol - Group 2A.

Substance(s) listed as OSHA Carcinogen(s):

None.

Substance(s) listed as NIOSH Carcinogen(s):

None.

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#### 12. Ecological information

##### Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

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Not classified for environmental hazards

Based on available data, the classification criteria are not met

##### benzyl alcohol - CAS: 100-51-6

###### a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 460 mg/l - Duration h: 96 - Notes: Pimephales promelas/  
EPA OPP 72-1

Endpoint: EC50 - Species: Daphnia = 230 mg/l - Duration h: 48 - Notes: Daphnia magna,  
OECD 202

###### b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 51 mg/l - Duration h: 504 - Notes: Daphnia magna,  
OECD 211

###### d) Terrestrial toxicity:

Endpoint: IC50 - Species: Microorganisms = 390 mg/kg - Duration h: 24 - Notes: ISO 8192;  
Nitrosomas

###### e) Plant toxicity:

Endpoint: NOEC - Species: Algae = 310 mg/l - Duration h: 72 - Notes: Pseudokirchneriella  
subcapitata, OECD 201

Endpoint: EC50 - Species: Algae = 770 mg/l - Duration h: 72 - Notes: Pseudokirchneriella  
subcapitata, OECD 201

##### formic acid - CAS: 64-18-6

###### a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 46 mg/l - Duration h: 96 - Notes: Leuciscus idus

Endpoint: EC50 - Species: Daphnia = 32.19 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 26.9 mg/l - Duration h: 72 - Notes: Scenedesmus  
subspicatus

Endpoint: NOEC - Species: Daphnia > 102 mg/l - Duration h: 504

###### c) Bacteria toxicity:

Endpoint: EC10 - Species: bacteria = 72 mg/l - Duration h: 312 - Notes: Boue  
activée/activated sludge

Endpoint: EC50 - Species: bacteria = 46.7 mg/l - Duration h: 17

###### f) Effects in sewage plants (activated sludge):

Endpoint: EC20 - Species: Microorganisms > 1000 mg/l - Duration h: 0.5

##### Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

###### a) Aquatic acute toxicity:

Endpoint: NOEC - Species: Pseudokirchneriella subcapitata (green algae) > 1000 mg/l -  
Duration h: 72 - Notes: OECD Test Guideline 201

Endpoint: EC50 - Species: Daphnia > 1000 mg/l - Duration h: 48 - Notes: OECD Test  
Guideline 202

Endpoint: LC50 - Species: Rainbow Trout (Oncorhynchus mykiss) > 1000 mg/l - Duration h:  
96 - Notes: OECD Test Guideline 203

###### b) Aquatic chronic toxicity:

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Endpoint: NOAEL - Species: Daphnia = 0.18 mg/l - Duration h: 504 - Notes: Daphnia magna

Endpoint: NOAEL - Species: Fish = 0.10 mg/l - Duration h: 672 - Notes: Oncorhynchus mykiss

Tetrapotassium pyrophosphate - CAS: 7320-34-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72

Endpoint: EC50 > 1000 mg/l - Duration h: 3 - Notes: Activated sludge

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 100 mg/l - Duration h: 96

Endpoint: NOEC - Species: Algae > 100 mg/l - Duration h: 72

benzothiazole-2-thiol - CAS: 149-30-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 0.71 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 0.25 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish = 0.73 mg/l - Duration h: 96

Endpoint: LC50 - Species: Daphnia = 4.1 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 0.08 mg/l - Duration h: 504

Endpoint: NOEC - Species: Algae = 0.066 mg/l - Duration h: 72

Endpoint: NOEC - Species: Fish 0.041 mg/l - Duration h: 2136

Persistence and degradability

benzyl alcohol - CAS: 100-51-6

Biodegradability: Biodegradation in water - Test: OECD 301C - Duration: 14 days - %: 92-96 - Notes: OECD 301C

formic acid - CAS: 64-18-6

Biodegradability: Readily biodegradable

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Biodegradability: Biodegradability rate - Test: OECD 301F - Duration: 28 days - %: 80

benzothiazole-2-thiol - CAS: 149-30-4

Biodegradability: Biodegradability rate - Test: OECD 301C - Duration: 14 days - %: 2.5

Bioaccumulative potential

benzyl alcohol - CAS: 100-51-6

BCF 1.37 l/kg

Log Kow 1.05 - Notes: 20°C

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Potentially bioaccumulative.

benzothiazole-2-thiol - CAS: 149-30-4

Log Pow 2.42

BCF - Test: OECD 305C < 8 - Duration: 14 days - Notes: Cyprinus carpio (25°C)

Mobility in soil

benzyl alcohol - CAS: 100-51-6

Log Koc 15.7

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Volality (H: Henry's Law Constant) 0.0879 Pa.m<sup>3</sup>/mol  
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics  
Floats on the water. Adsorption in soil, low mobility.  
benzothiazole-2-thiol - CAS: 149-30-4  
Log Koc 2.51 - 3.55

Other adverse effects  
No harmful effects expected.

**13. Disposal considerations**

Safe handling and methods for disposal  
Recover if possible. In so doing, comply with the local and national regulations currently in force.

**14. Transport information**



UN number

ADR-UN Number: 3265  
DOT number: UN3265  
IATA-UN Number: 3265  
IMDG-UN Number: 3265

UN proper shipping name

TDG-Shipping Name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (formic acid)  
ADR-Shipping Name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (formic acid)  
DOT-Shipping Name: Corrosive liquid, acidic, organic, n.o.s.(formic acid ...%, 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))  
IATA-Shipping Name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (formic acid)  
IMDG-Shipping Name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (formic acid)

Transport hazard class(es)

ADR-Class: 8  
DOT Hazard Class: 8  
ADR - Hazard identification number: 80  
IATA-Class: 8  
IATA-Label: 8  
IMDG-Class: 8

Packing group

ADR-Packing Group: II  
DOT Packing group: II  
IATA-Packing group: II  
IMDG-Packing group: II

Environmental hazards

ADR-Environmental Pollutant: No

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IMDG-Marine pollutant:	No
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)	N.A.
Special precautions in connection with transport or conveyance	
DOT Special provisions:	148, B2, IB2, T11, TP2, TP27
DOT Labels:	8
ADR-Subsidiary hazards:	-
ADR-S.P.:	274
ADR-Transport category (Tunnel restriction code):	2 (E)
IATA-Passenger Aircraft:	851
IATA-Subsidiary hazards:	-
IATA-Cargo Aircraft:	855
IATA-S.P.:	A3 A803
IATA-ERG:	8L
IMDG-EmS:	F-A , S-B
IMDG-Subsidiary hazards:	-
IMDG-Stowage and handling:	Category B SW2
IMDG-Segregation:	-

## 15. Regulatory information

Safety, health and environmental regulations specific for the product in question.

This Safety Data Sheet has been prepared according to the Hazardous Products Regulations (HPR) - WHMIS 2015.

NPRI - National Pollutant Release Inventory

Substance(s) listed under NPRI:

None.

100-51-6	benzyl alcohol Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics
104-57-4	BENZYL FORMATE
64-18-6	formic acid
7320-34-5	Tetrapotassium pyrophosphate
149-30-4	benzothiazole-2-thiol

DSL/NDSL Inventories (Canada):

All the substances of this product are listed on the DSL list.

No component of this product is listed on the NDSL list.

TSCA inventory

All the components are listed on the TSCA inventory.

TSCA sections for substances listed in section 3:

benzyl alcohol is listed in TSCA Section 8b

BENZYL FORMATE is listed in TSCA Section 8b

formic acid is listed in TSCA Section 8b

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Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics is listed in TSCA Section 8b

Tetrapotassium pyrophosphate is listed in TSCA Section 8b

benzothiazole-2-thiol is listed in TSCA Section 8d HSDR, Section 8b.

#### USA - Federal regulations

SARA - Superfund Amendments and Reauthorization Act

Section 302 Extremely Hazardous Substances: no substances listed.

Section 304 Hazardous substances: formic acid.

Section 313 Toxic chemical list: formic acid, benzothiazole-2-thiol.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: formic acid - Reportable quantity: 5000 pounds.

Reportable quantity for mixture: 67934.78261 pounds.

CAA - Clean Air Act

CAA listed substances:

benzyl alcohol is listed in CAA Section 111, Section 112(b) - HON

formic acid is listed in CAA Section 111, Section 112(b) - HON.

CWA - Clean Water Act

CWA listed substances:

formic acid is listed in CWA Section 311.

#### USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

benzothiazole-2-thiol - Listed as carcinogen.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

benzyl alcohol

formic acid.

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

formic acid

benzothiazole-2-thiol.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

benzyl alcohol

formic acid.

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## 16. Other information

Full text of phrases referred to in Section 3:

H312 Harmful in contact with skin.

H302 Harmful if swallowed.

H332 Harmful if inhaled.

H319 Causes serious eye irritation.

H318 Causes serious eye damage.



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H226 Flammable liquid and vapour.  
H314 Causes severe skin burns and eye damage.  
H331 Toxic if inhaled.  
H315 Causes skin irritation.  
H304 May be fatal if swallowed and enters airways.  
H227 Combustible liquid.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.  
H335 May cause respiratory irritation.  
H317 May cause an allergic skin reaction.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

Safety Data Sheet date: 12/14/2023, version 1

#### Disclaimer:

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

NFPA: National Fire Protection Association

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NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average