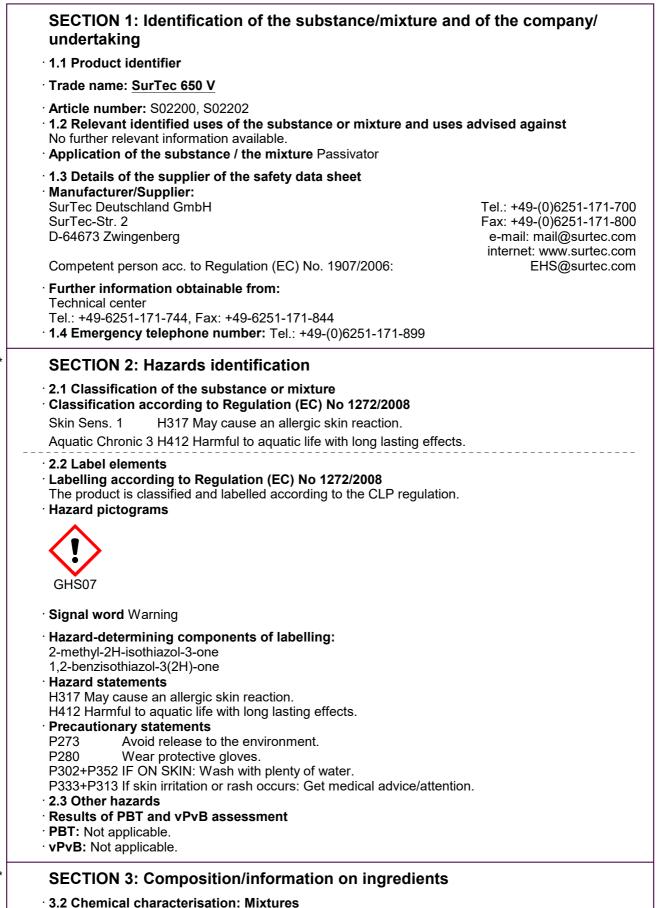
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• **Description:** Mixture of substances listed below with nonhazardous additions.

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#### Trade name: SurTec 650 V

Dangerous components:		(Contd. of page 1
EINECS: 231-793-3	Zinc sulphate, heptahydrate Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	<1%
	dipotassium hexafluorozirconate Acute Tox. 3, H301; Eye Dam. 1, H318	<1%
EINECS: 220-239-6 // Index number: 613-326-00-9 (0)	2-methyl-2H-isothiazol-3-one Acute Tox. 3, H301; Acute Tox. 2, H330; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411; Skin Sens. 1A, H317 Specific concentration limit: Skin Sens. 1A; H317 C ≥ 0.0015 %	
Additional information: For the wo	ording of the listed hazard phrases refer to section	n 16.
SECTION 4: First aid measu	Ires	
After inhalation: Supply fresh air; consult doctor in call In case of unconsciousness place per After skin contact: Rinse with warm water. If skin irritation continues, consult a After eye contact: Rinse opened eye for several minute After swallowing: Rinse out mouth and then drink plen Do not induce vomiting; call for med	remove any clothing soiled by the product. ase of complaints. atient stably in side position for transportation. doctor. es under running water. If symptoms persist, con hty of water. lical help immediately. eir back should be turned onto their side.	sult a doctor.
<ul> <li>4.2 Most important symptoms and No further relevant information avail Information for doctor: Treat according to symptoms (decorrantidote.</li> <li>4.3 Indication of any immediate m No further relevant information avail</li> </ul>	able. ntamination, vital functions), no known specific nedical attention and special treatment needer able.	d
<ul> <li>4.2 Most important symptoms and No further relevant information avail Information for doctor: Treat according to symptoms (decorrantidote.</li> <li>4.3 Indication of any immediate m No further relevant information avail</li> <li>SECTION 5: Firefighting me</li> </ul>	able. ntamination, vital functions), no known specific nedical attention and special treatment needer able.	d
<ul> <li>4.2 Most important symptoms and No further relevant information avail Information for doctor: Treat according to symptoms (decor- antidote.</li> <li>4.3 Indication of any immediate m No further relevant information avail</li> <li>SECTION 5: Firefighting me</li> <li>5.1 Extinguishing media</li> <li>Suitable extinguishing agents: The product is not flammable. Use fire extinguishing methods suita</li> <li>5.2 Special hazards arising from t After evaporation of water (in case of formed, if heating goes on: Hydrogen fluoride (HF) Sulphur oxides (SOx)</li> </ul>	able. ntamination, vital functions), no known specific <b>nedical attention and special treatment neede</b> able. <b>asures</b> able to surrounding conditions.	ces may be

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Wear self-contained respiratory protective device.

· Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

#### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures Not required. 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to penetrate the ground/soil.

In case of seepage into the ground inform responsible authorities.

- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. For large amounts: Pump off product.
   6.4 Reference to other sections
- See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Open and handle receptacle with care.
- Information about fire and explosion protection:
- The product is not flammable.
- No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions:
- The shelf life stated on the label is subject to correct storage of the product.
- Recommended storage temperature: Not store under -12 °C less sensitive to freeze
- 7.3 Specific end use(s) No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

#### 16923-95-8 dipotassium hexafluorozirconate

WEL (Great Britain) Short-term value: 10 mg/m<sup>3</sup>

as Zr

Long-term value: 5 mg/m<sup>3</sup>

## DNELS

- 16923-95-8 dipotassium hexafluorozirconate
- Dermal DNEL short term exposure, systemic effects 89 mg/kg bw/d (worker)
  - 44.5 mg/kg bw/d (general population)
  - DNEL long term exposure, systemic effects 89 mg/kg bw/d (worker)

44.5 mg/kg bw/d (general population)

Inhalative DNEL - short term exposure, systemic effects 6.2 mg/m3 (worker)

- DNEL long term exposure, local effects 6.2 mg/m3 (worker)
  - DNEL long term exposure, systemic effects 6.2 mg/m3 (worker)

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#### Trade name: SurTec 650 V (Contd. of page 3) · PNECs 16923-95-8 dipotassium hexafluorozirconate PNEC - Aquatic 5.77 mg/l (sediment marine water) 0.163 mg/l (water (marine water)) 0.163 mg/l (water (freshwater)) 0.107 mg/l (water (intermittent releases)) PNEC - STP 1.77 mg/l (sewage treatment plant) PNEC - sediment 28.86 mg/kg dw (sediment freshwater) 22.5 mg/kg dw (water (marine water)) PNEC - Soil 22.5 mg/kg dw (soil) · Additional information: The lists valid during the making were used as basis. · 8.2 Exposure controls · Personal protective equipment: General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Do not inhale gases / fumes / aerosols. Use skin protection cream for skin protection. **Respiratory protection:** Use suitable respiratory protective device only when aerosol or mist is formed. Recommended filter device for short term use: filter FFP2 · Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation To avoid skin problems reduce the wearing of gloves to the required minimum. Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Chloroprene rubber, CR Nitrile rubber, NBR Natural rubber, NR Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. · Eye protection: Safety glasses with side-shields (frame goggles) (CEN: EN 166-2001) Body protection: Choose personal protective equipment according to activity and possible exposure, e.g. apron. protecting boots, chemical-protection suit (according to DIN-EN 465). SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties · General Information · Appearance: Form: Fluid Colour: Green Clear Cloudy · Odour: Odourless (Contd. on page 5)

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· Odour threshold:	(Contd. of page 4) Not determined.
· pH-value at 20 °C:	3.4
Change in condition Melting point/freezing point: Initial boiling point and boiling range:	Undetermined. 100 °C
· Flash point:	Not applicable.
<ul> <li>Flammability (solid, gas):</li> </ul>	Not applicable.
· Ignition temperature:	Not applicable
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
<ul> <li>Explosion limits: Lower: Upper:</li> </ul>	Not determined. Not determined.
· Vapour pressure at 20 °C:	23 hPa
<ul> <li>Density at 20 °C:</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	1.011 g/cm <sup>3</sup> Not determined. Not determined. Not determined.
<ul> <li>Solubility in / Miscibility with water:</li> </ul>	Fully miscible.
<ul> <li>Partition coefficient: n-octanol/water:</li> </ul>	Not determined.
<ul> <li>Viscosity:</li> <li>Dynamic:</li> <li>Kinematic:</li> </ul>	fluid, watery Not determined. Not determined.
<ul> <li>Solvent content:</li> <li>VOC (EC)</li> <li>9.2 Other information</li> </ul>	0.00 % No further relevant information available.
SECTION 10: Stability and reactive	vity

• **10.1 Reactivity** No further relevant information available.

10.2 Chemical stability

• Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

- 10.3 Possibility of hazardous reactions Contact with strong acids releases hydrogen fluoride.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: Acids
- 10.6 Hazardous decomposition products:
- None if used correctly.

Concerning decomposition products in the event of fire, see Chapter 5.

#### **SECTION 11: Toxicological information**

#### · 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.

#### · Respiratory or skin sensitisation

May cause an allergic skin reaction.

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(Contd. of page 5) • CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) • Germ cell mutagenicity Based on available data, the classification criteria are not met. • Carcinogenicity Based on available data, the classification criteria are not met. • Reproductive toxicity Based on available data, the classification criteria are not met. • STOT-single exposure Based on available data, the classification criteria are not met. • STOT-repeated exposure Based on available data, the classification criteria are not met. • STOT-repeated exposure Based on available data, the classification criteria are not met. • Aspiration hazard Based on available data, the classification criteria are not met.		
SECTION 12: Ecological information		
· 12.1 Toxicity · Aquatic toxicity:		
16923-95-8 dipotassium hexafluorozirconate		
NOEC (21d) 3.7 mg/l (Daphnia magna)		
NOEC (48h) (static) 100 mg/l (Daphnia magna) (OECD 202)		
LC 50 (96h) 172.4 mg/l (Brachydanio rerio) (OECD 203)		
EC 50 (48h) (static) 151.4 mg/l (Daphnia magna) (OECD 202)		
EC 50 (72h) 10.66 mg/l (Pseudokirchneriella subcapitata)		
NOEC (96h) 100 mg/l (Brachydanio rerio) (OECD 203)		
<b>2682-20-4 2-methyl-2H-isothiazol-3-one</b> EC 50 (3h) 34.6 mg/l (Belebtschlamm) (DIN 38412-3 TTC-Test)		
<ul> <li>12.2 Persistence and degradability The organic portion of the product is biodegradable.</li> <li>12.3 Bioaccumulative potential No further relevant information available.</li> <li>12.4 Mobility in soil No further relevant information available.</li> <li>Ecotoxical effects:</li> <li>Behaviour in sewage processing plants:</li> </ul>		
2682-20-4 2-methyl-2H-isothiazol-3-one		
EC 20 (3h) 2.8 mg/l (Belebtschlamm) (DIN 38412-3 (TTC-Test)) • Additional ecological information: • AOX-indication: The product does not contain organically bonded halogen compounds. • General notes: Harmful to aquatic organisms • 12.5 Results of PBT and vPvB assessment		
• PBT: Not applicable.		
<ul> <li>vPvB: Not applicable.</li> <li>12.6 Other adverse effects No further relevant information available.</li> </ul>		
12.6 Other adverse effects no lutther relevant information available.		
SECTION 13: Disposal considerations		
· 13.1 Waste treatment methods · Recommendation		
Must not be disposed together with household garbage. Do not allow product to reach sewage system.		
Must be specially treated adhering to official regulations.		
<ul> <li>Waste disposal key: The mentioned waste codes are recommendations based on the product application as suggested by the manufacturer. Special applications and special disposal conditions at the applier's place may however require another waste code.</li> <li>European waste catalogue</li> </ul>		
11 01 98* other wastes containing hazardous substances		
16 03 03* inorganic wastes containing hazardous substances		
· Uncleaned packaging:		
Recommendation:		
Disposal must be made according to official regulations. Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.		
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Trade name: SurTec 650 V		
· Recommended cleansing agents: Water, if	(Contd. of page 6) necessary together with cleansing agents.	
SECTION 14: Transport information		
· 14.1 UN-Number · ADR, ADN, IMDG, IATA · 14.2 UN proper objecting name	Void	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, ADN, IMDG, IATA</li> <li>14.3 Transport hazard class(es)</li> </ul>	Void	
<ul> <li>ADR, ADN, IMDG, IATA</li> <li>Class</li> <li>14.4 Packing group</li> </ul>	Void	
· ADR, IMDG, IATA · 14.5 Environmental hazards:	Void	
<ul> <li>Marine pollutant:</li> <li>14.6 Special precautions for user</li> <li>14.7 Transport in bulk according to Annex</li> </ul>	No Not applicable.	
of Marpol and the IBC Code	Not applicable.	
<ul> <li>Transport/Additional information:</li> <li>UN "Model Regulation":</li> </ul>	Not dangerous according to the above specifications. Void	
SECTION 15: Regulatory informatio	n	
• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture		
<ul> <li>Directive 2012/18/EU</li> <li>Named dangerous substances - ANNEX I None of the ingredients is listed.</li> <li>REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3</li> </ul>		
· National regulations:		
<ul> <li>Information about limitation of use: Employment restrictions concerning juveniles must be observed.</li> <li>15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.</li> </ul>		
<b>SECTION 16: Other information</b> This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.		
<ul> <li>Relevant phrases</li> <li>H301 Toxic if swallowed.</li> <li>H302 Harmful if swallowed.</li> <li>H314 Causes severe skin burns and eye damage.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H330 Fatal if inhaled.</li> </ul>		
H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting H411 Toxic to aquatic life with long lasting effe	ects.	
<ul> <li>Classification according to Regulation (EC</li> <li>Abbreviations and acronyms:</li> <li>ADR: Accord européen sur le transport des marchandise International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association</li> </ul>	es dangereuses par Route (European Agreement concerning the	
GHS: Globally Harmonised System of Classification and EINECS: European Inventory of Existing Commercial Ch ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the Americ	nemical Substances	
VOC: Volatile Organic Compounds (USA, EU)	(Contd. on page 8)	

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(Contd. of page 7) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 2: Acute toxicity – Category 18 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1A Aquatic Acute 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 · \* Data compared to the previous version altered.