

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

- **1.1 Product identifier**
- **Trade name: SurTec 650 chromitAL Retouche**
- **Article number:** S06195
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Passivator
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
SurTec Deutschland GmbH
SurTec-Str. 2
D-64673 Zwingenberg
Tel.: +49-(0)6251-171-700
Fax: +49-(0)6251-171-800
e-mail: mail@surtec.com
internet: www.surtec.com
- **Kompetent person acc. til forordning (EF) nr. 1907/2006:** EHS@surtec.com
- **Further information obtainable from:**
Technical center
Tel.: +49-6251-171-744, Fax: +49-6251-171-844
- **1.4 Emergency telephone number:**
Between the usual hours of business:
Monday - Thursday, between 8.00 - 12.00 o'clock
and between 13.00 - 16.00 o'clock
Friday, between 8.00 - 12.00 o'clock
Tel.: +49-6251-171-700

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified, according to the CLP regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment** Not applicable
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.
- **Dangerous components:** Void
- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Generally the product does not irritate the skin.
Rinse with warm water.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.01.2019

Version number 3

Revision: 07.10.2016

Trade name: SurTec 650 chromitAL Retouche

(Contd. of page 1)

- Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Information for doctor:**
Treat according to symptoms (decontamination, vital functions), no known specific antidote.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
The product is not flammable.
Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture**
After evaporation of water (in case of a mass fire for example) the following substances may be formed, if heating goes on:
heavy metal oxides
Sulphur oxides (SO_x)
Hydrogen fluoride (HF)
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **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**
Wear protective equipment. Keep unprotected persons away.
- **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** No special precautions are necessary if used correctly.
- **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.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.01.2019

Version number 3

Revision: 07.10.2016

Trade name: SurTec 650 chromitAL Retouche

(Contd. of page 2)

- **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:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
 - **DNELs**
-
- 16923-95-8 dipotassium hexafluorozirconate**
- | | | |
|------------|------------------------------------|--------------------------------------|
| Dermal | DNEL akut, systemische Wirkung | 89 mg/kg bw/d (worker) |
| | | 44.5 mg/kg bw/d (general population) |
| | DNEL Langzeit, systemische Wirkung | 89 mg/kg bw/d (worker) |
| | | 44.5 mg/kg bw/d (general population) |
| Inhalative | DNEL akut, systemische Wirkung | 6.2 mg/m ³ (worker) |
| | DNEL Langzeit, lokale Wirkung | 6.2 mg/m ³ (worker) |
| | DNEL Langzeit, systemische Wirkung | 6.2 mg/m ³ (worker) |
- **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 eat, drink, smoke or sniff while working.
 - **Respiratory protection:** Not necessary at correctly use.
 - **Protection of hands:**
Rubber gloves or plastic gloves recommended during refilling.
To avoid skin problems reduce the wearing of gloves to the required minimum.
No chemical-protective gloves required.
 - **Eye protection:** Goggles recommended during refilling
 - **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

(Contd. on page 4)

Safety data sheet

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Version number 3

Revision: 07.10.2016

Trade name: SurTec 650 chromitAL Retouche

(Contd. of page 3)

- **Odour:** Nearly odourless
- **Odour threshold:** Not determined.
- **pH-value at 20 °C:** 3.7
- **Change in condition**
 - Melting point/freezing point:** 0 °C
 - Initial boiling point and boiling range:** 100 °C
- **Flash point:** Not applicable.
- **Flammability (solid, gas):** Not applicable.
- **Ignition temperature:** Not applicable
- **Decomposition temperature:** Not determined.
- **Auto-ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:**
 - Lower:** Not determined.
 - Upper:** Not determined.
- **Vapour pressure at 20 °C:** 23 hPa
- **Density at 20 °C:** 1 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water:** Fully miscible.
- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:** fluid, watery
- **Dynamic:** Not determined.
- **Kinematic:** Not determined.
- **Solvent content:**
 - VOC (EC)** 0.00 %
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **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**
No dangerous reactions if handled and stored according to regulations and instructions.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **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.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

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Revision: 07.10.2016

Trade name: SurTec 650 chromitAL Retouche

(Contd. of page 5)

- **14.2 UN proper shipping name**
- **ADR, ADN, IMDG, IATA** Void
- **14.3 Transport hazard class(es)**
- **ADR, ADN, IMDG, IATA**
- **Class** Void
- **14.4 Packing group**
- **ADR, IMDG, IATA** Void
- **14.5 Environmental hazards:**
- **Marine pollutant:** No
- **14.6 Special precautions for user** Not applicable.
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- **Transport/Additional information:** Not dangerous according to the above specifications.
- **UN "Model Regulation":** Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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.

- **Abbreviations and acronyms:**
 - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 - IMDG: International Maritime Code for Dangerous Goods
 - IATA: International Air Transport Association
 - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - ELINCS: European List of Notified Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - VOC: Volatile Organic Compounds (USA, EU)
 - DNEL: Derived No-Effect Level (REACH)
 - PNEC: Predicted No-Effect Concentration (REACH)
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
- *** Data compared to the previous version altered.**

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