

**Safety data sheet  
according to 1907/2006/EC, Article 31**

revised on: 10.05.2021

Version number 3

Creation Date: 03.02.2017

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

- **Trade name:** Potassium chromate solution 50 g/l (5 % water)
- **Article number:** 1604
- **CAS Number:** - mixture not relevant
- **Registration number** This product is a mixture. REACH registration numbers see section 3.
- **UFI:** XDA0-E094-C00J-VD9K

**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**Reagent for analysis  
Laboratory chemicals**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**Th. Geyer GmbH & Co. KG  
Dornierstr. 4 – 6  
D-71272 Renningen

Tel.: +49(0)7159-1637-0, Fax:+49 (0)7159/18417

[www.thgeyer.de](http://www.thgeyer.de)[sicherheitsdatenblaetter@thgeyer.de](mailto:sicherheitsdatenblaetter@thgeyer.de)**Further information obtainable from:** Product management department**1.4 Emergency telephone number:**National Poisons Information Service  
(Birmingham Centre)  
City Hospital  
Dudley Road  
Birmingham B18 7QH  
Tel.:Emergency: (00 44) 87 06 00 62 66**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

GHS08 health hazard

Muta. 1B	H340	May cause genetic defects.
Carc. 1B	H350i	May cause cancer by inhalation.
Repr. 1A	H360Fd	May damage fertility. Suspected of damaging the unborn child.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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GHS07

Skin Sens. 1B H317 May cause an allergic skin reaction.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

#### Hazard pictograms



GHS07



GHS08



GHS09

#### Signal word Danger

#### Hazard statements

H317 May cause an allergic skin reaction.

H340 May cause genetic defects.

H350i May cause cancer by inhalation.

H360Fd May damage fertility. Suspected of damaging the unborn child.

H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P201 Obtain special instructions before use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Additional information:

Restricted to professional users.

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

#### Dangerous components:

CAS: 7789-00-6	potassium chromate	5.00%
EINECS: 232-140-5	Acute Tox. 3, H301	
Reg.nr.: 01-2119543478-30-XXXX	Muta. 1B, H340;  Carc. 1B, H350i	
	Aquatic Acute 1, H400;  Aquatic Chronic 1, H410	
	Skin Irrit. 2, H315;  Eye Irrit. 2, H319;  Skin Sens. 1, H317; STOT SE 3, H335	

#### SVHC

CAS: 7789-00-6	potassium chromate	
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· **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:**

First aider needs to protect himself.  
Immediately remove any clothing soiled by the product.

##### · **After inhalation:**

Remove person from danger area.  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.

##### · **After skin contact:**

Flush contaminated skin with soap and plenty of water.  
take care of a Possibility of inhalation at the same time  
In the case of contamination with (hot!) Solutions or the action of dusts on larger wounds, rinse affected skin areas under running water.  
Dissolve the vitamin C solution (about 5 g dissolved in water).  
Seek immediate medical advice.

##### · **After eye contact:**

Protect unharmed eye.  
Seek immediate medical advice.  
Separate eyelids, wash the eyes thoroughly with water (15 min).

##### · **After swallowing:**

Rinse out mouth and then drink plenty of water.  
Call a doctor immediately.  
A person vomiting while laying on their back should be turned onto their side.

##### · **Information for doctor:** Please observe safety data sheet/label.

#### · **4.2 Most important symptoms and effects, both acute and delayed**

Gastric or intestinal disorders  
Cramp  
Coughing

##### · **Hazards** breathing difficulties

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

Give Glucocorticoid-Aerosol in case of lung irritation.  
Monitor circulation.  
Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.  
In cases of cyanosis, administer vitamin C, oxygen, protect from sunlight.  
Symptomatic treatment.

### SECTION 5: Firefighting measures

#### · **5.1 Extinguishing media**

· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet.

#### · **5.2 Special hazards arising from the substance or mixture**

Ambient fire may liberate hazardous vapours.  
Formation of toxic gases is possible during heating or in case of fire.  
Under certain fire conditions, traces of other toxic gases cannot be excluded.

#### · **5.3 Advice for firefighters**

##### · **Protective equipment:**

Wear self-contained respiratory protective device.  
Do not inhale explosion gases or combustion gases.

##### · **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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Prevent fire extinguishing water from contaminating surface water or the ground water system.

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation.

Product forms slippery surface when combined with water.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Avoid contact with eyes and skin.

Evacuate the danger area.

#### · 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/surface or ground water.

#### · 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.

Ensure adequate ventilation.

Dispose of the material collected according to regulations.

#### · 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

Store in cool, dry place in tightly closed receptacles.

Apply the general protection and hygiene measures for the handling with chemicals.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

#### · Information about fire - and explosion protection:

Substance itself does not burn, tuning measures to environment

Keep respiratory protective device available.

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

##### · Storage:

· **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** None.

· **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

· **Additional information about design of technical facilities:** No further data; see item 7.

#### · **Ingredients with limit values that require monitoring at the workplace:**

**CAS: 7789-00-6 potassium chromate**

WEL	Long-term value: 0.01 0.025* mg/m <sup>3</sup> as Cr; Carc, Sen, BMGV; *process generated
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**Ingredients with biological limit values:**
**CAS: 7789-00-6 potassium chromate**

BMGV	10 µmol/mol creatinine Medium: urine Sampling time: post shift Parameter: chromium
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· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **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.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Safety glasses

Tightly sealed goggles

· **Body protection:**



Protective work clothing (e. g. safety shoes EN ISO 20345, long-sleeved protective working garments).

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Orange

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· <b>Odour:</b>	Odourless
· <b>pH-value at 20 °C:</b>	>8
· <b>Change in condition</b> <b>Melting point/freezing point:</b>	0 °C
<b>Initial boiling point and boiling range:</b>	~100 °C (CAS: 7732-18-5 Water)
· <b>Flash point:</b>	Not applicable.
· <b>Flammability (solid, gas):</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b> <b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapour pressure at 20 °C:</b>	23 hPa
· <b>Density at 20 °C:</b>	~1.05 g/cm <sup>3</sup> Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Fully miscible.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b> <b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b> <b>Water:</b>	95.0 %
<b>VOC (EC)</b>	0.00 %
<b>Solids content:</b>	~5.0 %
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable with proper storage and handling.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Violent reactions with strong alkalis and oxidising agents.
- **10.4 Conditions to avoid** See also Section 7.
- **10.5 Incompatible materials:** Avoid contact with other chemicals.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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· <b>LD/LC50 values relevant for classification:</b>		
· <b>CAS: 7789-00-6 potassium chromate</b>		
Oral	LD50	180 mg/kg (mouse)
· <b>Primary irritant effect:</b>		
· <b>Skin corrosion/irritation</b> Based on available data, the classification criteria are not met.		
· <b>Serious eye damage/irritation</b> Based on available data, the classification criteria are not met.		
· <b>Respiratory or skin sensitisation</b> May cause an allergic skin reaction.		
· <b>Subacute to chronic toxicity:</b> -		
· <b>Additional toxicological information:</b>		
· <b>CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)</b>		
· <b>Germ cell mutagenicity</b> May cause genetic defects.		
· <b>Carcinogenicity</b> May cause cancer by inhalation.		
· <b>Reproductive toxicity</b> May damage fertility. Suspected of damaging the unborn child.		
· <b>STOT-single exposure</b> Based on available data, the classification criteria are not met.		
· <b>STOT-repeated exposure</b> Based on available data, the classification criteria are not met.		
· <b>Aspiration hazard</b> Based on available data, the classification criteria are not met.		

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms.  
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**  
Observe local (country-specific) regulations and laws  
This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Chemicals must be disposed of in compliance with the respective national regulations.

· <b>European waste catalogue</b>	
HP6	Acute Toxicity
HP7	Carcinogenic
HP11	Mutagenic
HP14	Ecotoxic

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

<ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	UN3287
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>	3287 TOXIC LIQUID, INORGANIC, N.O.S., ENVIRONMENTALLY HAZARDOUS TOXIC LIQUID, INORGANIC, N.O.S., MARINE POLLUTANT TOXIC LIQUID, INORGANIC, N.O.S.
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR, IMDG</b></li> </ul>	<div style="display: flex; align-items: center; gap: 10px;">   </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>
<ul style="list-style-type: none"> <li>· <b>IATA</b></li> </ul>	<div style="display: flex; align-items: center; gap: 10px;">  </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG</b></li> <li>· <b>IATA</b></li> </ul>	II not regulated
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> <li>· <b>Special marking (ADR):</b></li> </ul>	Symbol (fish and tree) Symbol (fish and tree)
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>EMS Number:</b></li> </ul>	Warning: Toxic substances. F-A,S-A
<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	<hr style="border-top: 1px dashed black;"/> <ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> <li>· <b>Tunnel restriction code</b></li> </ul>
	100 ml Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml D/E

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<b>UN "Model Regulation":</b>	UN 3287 TOXIC LIQUID, INORGANIC, N.O.S., 6.1, II, ENVIRONMENTALLY HAZARDOUS
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### 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.
- **Seveso category E2** Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

<b>· LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)</b>		
CAS: 7789-00-6	potassium chromate	Sunset date: 2017-09-21

- |                |                    |                         |
|----------------|--------------------|-------------------------|
| CAS: 7789-00-6 | potassium chromate | Sunset date: 2017-09-21 |
|----------------|--------------------|-------------------------|
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 28, 29, 47, 72

<b>· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II</b>		
CAS: 7789-00-6	potassium chromate	

CAS: 7789-00-6	potassium chromate	
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- **National regulations:**

- **Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

- **Other regulations, limitations and prohibitive regulations**

<b>· Substances of very high concern (SVHC) according to REACH, Article 57</b>		
CAS: 7789-00-6	potassium chromate	

CAS: 7789-00-6	potassium chromate	
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- **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. Application, use and handling of our products take place out of our control and are solely your responsibility.

- **Relevant phrases**

H301 Toxic if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H340 May cause genetic defects.

H350i May cause cancer by inhalation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

- **Department issuing SDS:** Product management

- **Contact:** Product management

- **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)

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LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 3: Acute toxicity - oral – Category 3  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
Skin Sens. 1B: Skin sensitisation – Category 1B  
Muta. 1B: Germ cell mutagenicity – Category 1B  
Carc. 1B: Carcinogenicity – Category 1B  
Repr. 1A: Reproductive toxicity – Category 1A  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 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

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### Annex: Exposure scenario

- **Short title of the exposure scenario** Chemicals for Laboratory and industrial use
- **Description of the activities / processes covered in the Exposure Scenario**  
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
- **Duration and frequency** 5 workdays/week.
- **Physical parameters**
- **Physical state** Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure**  
Observe section 6 of the Safety Data Sheet (Accidental release measures).  
Use only on hard ground.
- **Other operational conditions affecting worker exposure**  
Avoid contact with the skin.  
Avoid long-term or repeated skin contact.  
Do not breathe gas/vapour/aerosol.
- **Other operational conditions affecting consumer exposure** No special measures required.
- **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures**  
Provide Internal Plant Instruction.  
Employment restrictions concerning juveniles must be observed.  
Employment restrictions concerning pregnant and lactating women must be observed.
- **Technical protective measures**  
Use product only in enclosed systems.  
Ensure that suitable extractors are available on processing machines
- **Personal protective measures**  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the skin.  
Protective gloves  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Measures for consumer protection** Ensure adequate labelling.
- **Environmental protection measures**
- **Water**  
Do not allow to reach sewage system. Dispose of this product and its container at hazardous or special waste collection point.  
Do not allow to reach sewage system.
- **Soil** Prevent contamination of soil.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.