

Fiche de données de sécurité selon 1907/2006/CE, Article 31

Printing date 28.08.2019

Version number 4

Revision: 28.08.2019

SECTION 1: Identification de la substance/du mélange et de la société/l'entreprise

· **1.1 Product identifier**

· **Trade name:** Xylenolorange-Verreibung 1 %

· **Article number:** 04219

· **Registration number** inapplicable, this product is a mixture

· **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**

Chemical intermediate

Laboratory chemicals

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Bernd Kraft GmbH

Stempelstraße 6

D-47167 Duisburg



produktsicherheit@berndkraft.de

Tel.: (+49)0203/5194-0

Fax : (+49)0203/5194-290

· **Further information obtainable from:** Product safety department

· **1.4 Emergency telephone number:**

For Hazardous Materials [or Dangerous Goods] Incidents

Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300

Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

SECTION 2: Identification des dangers

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS03 flame over circle

Ox. Sol. 3 H272 May intensify fire; oxidiser.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC not applicable**

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

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

(Contd. on page 2)

BE

Fiche de données de sécurité

selon 1907/2006/CE, Article 31

Printing date 28.08.2019

Version number 4

Revision: 28.08.2019

Trade name: Xylenolorange-Verreibung 1 %

(Contd. of page 1)

· **Hazard pictograms**

GHS03

· **Signal word** Warning· **Hazard statements**

H272 May intensify fire; oxidiser.

· **Precautionary statements**

P210 Keep away from heat. - No smoking.

P220 Keep/Store away from clothing/combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

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

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

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

· **2.3 Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

SECTION 3: Composition/informations sur les composants

· **3.2 Chemical characterisation: Mixtures**· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components:**

CAS: 7757-79-1	potassium nitrate	O R8	99.0%
EINECS: 231-818-8		Ox. Sol. 3, H272	
Reg.nr.: 01-2119488224-35-XXXX			

· **Other substances that are irrelevant for the classification of the mixture:**

CAS: 3618-43-7	Xylenolorange Tetranatriumsalz	1.0%
EINECS: 222-805-8		

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: Premiers secours

· **4.1 Description of first aid measures**· **After inhalation** Supply fresh air; consult doctor in case of complaints.· **After skin contact** Wash off with plenty of water. Immediately remove contaminated clothing.· **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing**

Rinse out mouth and then drink plenty of water.

Seek medical treatment.

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

No further relevant information available.

(Contd. on page 3)

Fiche de données de sécurité
selon 1907/2006/CE, Article 31

Printing date 28.08.2019

Version number 4

Revision: 28.08.2019

Trade name: Xylenolorange-Verreibung 1 %

(Contd. of page 2)

- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Mesures de lutte contre l'incendie

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture**
non-flammable
oxidiser
Ambient fire may liberate hazardous vapours.
- **5.3 Advice for firefighters**
- **Protective equipment:** Stay in danger area only with self-contained breathing apparatus.
- **Additional information**
Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Mesures à prendre en cas de dispersion accidentelle

- **6.1 Personal precautions, protective equipment and emergency procedures**
Advice for non-emergency personnel:
do not inhale dust
Ensure adequate ventilation
Avoid substance contact.
Wear protective equipment. Keep unprotected persons away.
Avoid formation of dust.
Evacuate the danger area.
consult an expert
observe emergency procedures
Advice for emergency responders: Protective equipment see section 8.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
- **6.3 Methods and material for containment and cleaning up:**
Cover drains.
Collect, bind, and pump off spills.
Observe possible material restrictions
Take up dry
Clean up affected area.
Send for recovery or disposal in suitable receptacles.
avoid generation of dust
Dispose contaminated material as waste according to item 13.
- **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.

BE

(Contd. on page 4)

Fiche de données de sécurité selon 1907/2006/CE, Article 31

Printing date 28.08.2019

Version number 4

Revision: 28.08.2019

Trade name: Xylenolorange-Verreibung 1 %

(Contd. of page 3)

SECTION 7: Manipulation et stockage

· **7.1 Precautions for safe handling**

Prevent formation of dust.

Observe label precautions.

General occupational hygiene measures.

· **Information about fire - and explosion protection:** No special measures required.

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

· **Storage**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:**

Store away from flammable substances.

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

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

SECTION 8: Contrôles de l'exposition/protection individuelle

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

· **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**

7757-79-1 potassium nitrate

Dermal	DNEL long-therm	20.8 mg/kg (Worker) (systemische Effekte) MSDS
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Inhalative	DNEL long-therm	36.7 mg/m ³ (Worker) (systemische Effekte) MSDS
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· **PNECs**

7757-79-1 potassium nitrate

PNEC	18 mg/l (Sewage treatment plant) (Assessment factor: 10) MSDS
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0.045 mg/l (Marine water) (Assessment factor: 1000)

0.45 mg/l (Fresh water) (Assessment factor: 1000)

MSDS

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures** Wash hands before breaks and at the end of work.

· **Respiratory protection:**

required when dusts are generated

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.

(Contd. on page 5)

BE

Fiche de données de sécurité selon 1907/2006/CE, Article 31

Printing date 28.08.2019

Version number 4

Revision: 28.08.2019

Trade name: Xylenolorange-Verreibung 1 %

(Contd. of page 4)

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

· **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.
chemically resistant

· **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:** Tightly sealed goggles.

· **Body protection:**

Protective work clothing.

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

· **Limitation and supervision of exposure into the environment**

Discharge into the environment must be avoided.

Do not empty into drains.

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SECTION 9: Propriétés physiques et chimiques

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

· **General Information**

· **Appearance:**

Form: Fluid

Colour: Colourless

· **Odour:** Odourless

· **Odour threshold:** Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

Melting point/freezing point: undetermined

Initial boiling point and boiling range: 400 °C

· **Flash point:** Not applicable

· **Flammability (solid, gaseous)** Contact with combustible material may cause fire.

· **Ignition temperature:** 334 °C

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Not determined.

· **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

· **Vapour pressure:** Not applicable.

(Contd. on page 6)

BE

Fiche de données de sécurité selon 1907/2006/CE, Article 31

Printing date 28.08.2019

Version number 4

Revision: 28.08.2019

Trade name: Xylenolorange-Verreibung 1 %

(Contd. of page 5)

· Density at 20 °C:	1 g/cm ³
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Soluble
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
dynamic:	Not applicable.
kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	0.0 %
Solids content:	100.0 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stabilité et réactivité

- **10.1 Reactivity oxidizing agents**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with flammable substances
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Informations toxicologiques

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

· LD/LC50 values relevant for classification:

7757-79-1 potassium nitrate

Oral	LD ₅₀	3,015 mg/kg (rat)
		MSDS

- **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** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, 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.

(Contd. on page 7)

BE

Fiche de données de sécurité
selon 1907/2006/CE, Article 31

Printing date 28.08.2019

Version number 4

Revision: 28.08.2019

Trade name: Xylenolorange-Verreibung 1 %

(Contd. of page 6)

· **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Informations écologiques

· **12.1 Toxicity**· **Aquatic toxicity:****7757-79-1 potassium nitrate**

EC50	490 mg/l (Daphnia) (48h)
	MSDS

LC50	191 mg/l (Fish) (96h)
	MSDS

· **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:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

· **12.5 Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **12.6 Other adverse effects** Do not allow to run into surface waters, wastewater, or soil.

SECTION 13: Considérations relatives à l'élimination

· **13.1 Waste treatment methods**· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Hand over to hazardous waste disposers.

Do not mix with other waste.

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

SECTION 14: Informations relatives au transport

· **14.1 UN-Number**· **ADR, IMDG, IATA**

UN1486

· **14.2 UN proper shipping name**· **ADR**

1486 POTASSIUM NITRATE

· **IMDG, IATA**

POTASSIUM NITRATE

(Contd. on page 8)

BE

Fiche de données de sécurité
selon 1907/2006/CE, Article 31

Printing date 28.08.2019

Version number 4

Revision: 28.08.2019

Trade name: Xylenorange-Verreibung 1 %

(Contd. of page 7)

· 14.3 Transport hazard class(es)

· ADR



· Class 5.1 (O2) Oxidising substances.
· Label 5.1

· IMDG, IATA



· Class 5.1 Oxidising substances.
· Label 5.1

· 14.4 Packing group

· ADR, IMDG, IATA III

· 14.5 Environmental hazards:

· Marine pollutant: No

· 14.6 Special precautions for user

Warning: Oxidising substances.
· Danger code (Kemler): 50
· Stowage Category A
· Stowage Code SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.

· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 5 kg
· Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 1000 g
· Transport category 3
· Tunnel restriction code E

· IMDG

· Limited quantities (LQ) 5 kg
· Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 1000 g

· UN "Model Regulation":

UN 1486 POTASSIUM NITRATE, 5.1, III

BE

(Contd. on page 9)

Fiche de données de sécurité selon 1907/2006/CE, Article 31

Printing date 28.08.2019

Version number 4

Revision: 28.08.2019

Trade name: Xylenolorange-Verreibung 1 %

(Contd. of page 8)

SECTION 15: Informations relatives à la réglementation

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS03

- **Signal word** Warning
- **Hazard statements**
H272 May intensify fire; oxidiser.
- **Precautionary statements**
 - P210 Keep away from heat. - No smoking.
 - P220 Keep/Store away from clothing/combustible materials.
 - P221 Take any precaution to avoid mixing with combustibles.
 - P280 Wear protective gloves/protective clothing/eye protection/face protection.
 - P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** P8 OXIDISING LIQUIDS AND SOLIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **National regulations**
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**

· Substances of very high concern (SVHC) according to REACH, Article 57
--

not included

SECTION 16: Autres informations

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.

- **Relevant phrases**
H272 May intensify fire; oxidiser.
- **R8** Contact with combustible material may cause fire.
- **Abbreviations and acronyms:**
 - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 - ICAO: International Civil Aviation Organisation
 - 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

(Contd. on page 10)

Fiche de données de sécurité
selon 1907/2006/CE, Article 31

Printing date 28.08.2019

Version number 4

Revision: 28.08.2019

Trade name: Xylenolorange-Verreibung 1 %

(Contd. of page 9)

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

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

Ox. Sol. 3: Oxidizing solids – Category 3

. * Data compared to the previous version altered.

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