

## SAFETY DATA SHEET

## X-Seal

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 23.09.2020

Revision date 09.04.2021

**1.1. Product identifier**

Product name X-Seal

Article no. T528015, T528009

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance / preparation Sealant.

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

Company name Relekta AS

Office address Innspurten 1A

Postal address Postboks 6169 Etterstad

Postcode 0663

City Oslo

Country Norge

Telephone number +47 22 66 04 00

Fax +47 22 66 04 01

Email [relekta@relekta.no](mailto:relekta@relekta.no)

Website [www.relekta.no](http://www.relekta.no)

Enterprise No. NO 831 881 372

**1.4. Emergency telephone number**

Emergency telephone Telephone number: +47 22 59 13 00  
Description: Norwegian Poison Information Center

Telephone number: 112  
Description: Sweden: Require Poison Information

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

CLP classification, notes      Classification according to (EC) No.1272/2008: Not classified.

### 2.2. Label elements

Supplemental label information      EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

### 2.3. Other hazards

PBT / vPvB      The chemical contains no PBT or vPvB substances.

Other hazards      The chemical does not contain any known or suspected endocrine disruptors.

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Titanium dioxide; [in powder form containing 1% or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$ ]	CAS No.: 13463-67-7 EC No.: 236-675-5 Index No.: 022-006-00-2	Carc. 2; H351	$\geq 1 \%$	
Substance comments	See section 16 for explanation of hazard statements (H) listed above.			

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General	Emergency telephone number: see section 1.4.
Inhalation	Fresh air and rest. Get medical attention if discomfort continues.
Skin contact	Rinse with water. Wash skin with soap and water. Remove contaminated clothing. Get medical attention if any discomfort continues.
Eye contact	Flush immediately with plenty of water. Promptly rinse eyes with plenty of water (tempered at 20-30°C) for at least 15 minutes. Remove contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth with water. Drink plenty of water. Do not induce vomiting. Get medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Acute symptoms and effects      Eye contact: No irritation expected.

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

Other information      Treat symptomatically. No specific information from the manufacturer.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Dry-powder, carbon dioxide (CO <sub>2</sub> ), water mist, foam.
Improper extinguishing media	Do not use water jet.

### 5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The chemical is not classified as flammable.
Hazardous combustion products	May include, but is not limited to: Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO). Unspecified organic compounds.

### 5.3. Advice for firefighters

Personal protective equipment	Use compressed air equipment when the chemical is involved in fire. In case of evacuation, an approved protection mask should be used. See also section 8.
Other information	Containers close to fire should be removed immediately or cooled with water.

## SECTION 6: Accidental release measures

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

General measures	Keep away from sources of ignition - No smoking.
Personal protection measures	Provide adequate ventilation. Use protective equipment as referred to in section 8.

### 6.2. Environmental precautions

Environmental precautionary measures	Do not allow to enter into sewer, water system or soil.
--------------------------------------	---

### 6.3. Methods and material for containment and cleaning up

Clean up	Scrape up spillage or absorb with absorbing material. Collect in suitable containers and deliver as waste according to section 13. Wash the contaminated surface with water.
----------	--

### 6.4. Reference to other sections

Other instructions	See also sections 8 and 13.
--------------------	-----------------------------

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Handling	Provide adequate ventilation. Use protective equipment as referred to in section 8.
----------	---

### Protective safety measures

Advice on general occupational hygiene	Do not eat, drink or smoke during work. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing before reuse.
--	--

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

Storage	Store in tightly closed original container in a dry, cool and well-ventilated place.
Conditions to avoid	Avoid heat, flames and other sources of ignition. Protect from moisture.

### Conditions for safe storage

Advice on storage compatability	Keep away from: Food and feed.
---------------------------------	--------------------------------

## 7.3. Specific end use(s)

Specific use(s)	See section 1.2.
-----------------	------------------

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
titanium dioxide (norwegian exposure limits)	CAS No.: 13463-67-7	Limit value (8 h) : 5 mg/m <sup>3</sup>	
Titanium dioxide	CAS No.: 13463-67-7	Limit value (8 h) : 5 mg/m <sup>3</sup>	
Control parameters comments	References (laws/regulations): Norwegian regulation on exposure limits: "FOR-2011-12-06-1358 Forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier)". Swedish regulation on exposure limits: Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden, "Hygieniska gränsvärden", AFS 2015:7		

### 8.2. Exposure controls

#### Precautionary measures to prevent exposure

Technical measures to prevent exposure	<p>Provide adequate ventilation. The personal protective equipment must be CE-marked and the latest version of the standards shall be used. The protective equipment and the specified standards recommended below are only suggestions, and should be selected on advice from the supplier of such equipment.</p> <p>A risk assessment of the work place/work activities (the actual risk) may lead to other control measures. The protection equipment's suitability and durability will depend on application.</p>
--	---

#### Eye / face protection

Eye protection equipment	Description: Normally not necessary.
Additional eye protection measures	Eye wash facilities should be available at the work place. Either a fixed eye wash facility connected to the drinking water (preferably warm water) or a portable disposable unit.

#### Hand protection

Suitable gloves type	Nitrile. Rubber (natural, latex). Polyvinyl alcohol (PVA).
Breakthrough time	Comments: No specific information from the manufacturer.

Thickness of glove material	Comments: No specific information from the manufacturer.
Hand protection equipment	Description: Normally not required. Use protective gloves that are suitable for the application. Glove thickness must be chosen in consultation with the glove supplier, who can inform about the breakthrough time for the glove. The gloves abilities may vary among the different glove manufacturers. Reference to relevant standard: EN ISO 374 (Protective gloves against chemicals and micro-organisms). EN 420 (Protective gloves - General requirements and test methods).
Additional hand protection measures	Replace gloves if signs of wear and tear.

## Skin protection

Recommended protective clothing	Description: Wear appropriate protective clothing to protect against skin contact.
Additional skin protection measures	Emergency shower should be available at the workplace.

## Respiratory protection

Recommended respiratory protection	Description: Normally not required. Use filtercombination A/P3 by spraying or aerosol formation. Reference to relevant standard: EN 14387 (Respiratory protective devices. Gas filter(s) and combined filter(s). Requirements, testing, marking). EN 143 (Respiratory protective devices - Particle filters - Requirements, testing, marking).
------------------------------------	--

## Appropriate environmental exposure control

Environmental exposure controls	Do not allow to enter into sewer, water system or soil.
---------------------------------	---

# SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state	Paste.
Colour	Varying.
Odour	Characteristic.
Odour limit	Comments: Not determined.
pH	Comments: Not relevant.
Melting point / melting range	Comments: Not determined.
Boiling point / boiling range	Comments: Not determined.
Flash point	Comments: Not relevant.
Evaporation rate	Comments: Not relevant.
Flammability	Non flammable.
Explosion limit	Comments: Not relevant.
Vapour pressure	Comments: Not relevant.
Vapour density	Comments: Not relevant.

Relative density	Value: 1,48 Temperature: 20 °C
Density	Value: 1480 kg/m <sup>3</sup> Temperature: 20 °C
Solubility	Medium: Water Comments: Insoluble.
Partition coefficient: n-octanol/ water	Comments: Not relevant.
Auto-ignition temperature	Comments: Not relevant.
Decomposition temperature	Comments: Not relevant.
Viscosity	Comments: Not specified by the manufacturer.
Explosive properties	Not explosive.
Oxidising properties	Not oxidizing.

## 9.2. Other information

### Physical hazards

Content of VOC	Value: 0 %
----------------	------------

### Other physical and chemical properties

Physical and chemical properties	No further information is available.
----------------------------------	--------------------------------------

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	Heating may cause a fire.
------------	---------------------------

### 10.2. Chemical stability

Stability	The chemical is stable under normal conditions of storage and use.
-----------	--

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal conditions.
------------------------------------	-------------------------------

### 10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Water, moisture.
---------------------	--

### 10.5. Incompatible materials

Materials to avoid	Not specified by the manufacturer.
--------------------	------------------------------------

### 10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal conditions. See also section 5.2.
----------------------------------	---

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Other information regarding health hazards

Assessment of acute toxicity, classification	Based on available data, the classification criteria are not met.
Assessment of skin corrosion / irritation, classification	Based on available data, the classification criteria are not met.
Assessment of eye damage or irritation, classification	Based on available data, the classification criteria are not met.
Assessment of respiratory sensitisation, classification	Based on available data, the classification criteria are not met.
Assessment of skin sensitisation, classification	Based on available data, the classification criteria are not met.
Assessment of germ cell mutagenicity, classification	Based on available data, the classification criteria are not met.
Assessment of carcinogenicity, classification	Based on available data, the classification criteria are not met.
Assessment of reproductive toxicity, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - single exposure, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - repeated exposure, classification	Based on available data, the classification criteria are not met.
Assessment of aspiration hazard, classification	Based on available data, the classification criteria are not met.

#### Symptoms of exposure

In case of ingestion	No specific information from the manufacturer.
In case of skin contact	No specific information from the manufacturer.
In case of inhalation	No specific information from the manufacturer.
In case of eye contact	No irritation expected.

### 11.2 Other information

Other information	No further information is available.
-------------------	--------------------------------------

## SECTION 12: Ecological information

### 12.1. Toxicity

Aquatic toxicity, fish	Toxicity type: Acute Value: > 1000 mg/l Effect dose concentration: LC50 Comments: Applies to CAS-nr.: 13463-67-7.
------------------------	--

Aquatic toxicity, algae	<p>Toxicity type: Acute  Value: &gt; 100 mg/l  Effect dose concentration: EC50  Test duration: 72 hour(s)  Species: Pseudokirchneriella subcapitata  Method: OECD 201  Comments: Applies to CAS-nr.: 13463-67-7.</p> <p>Value: ≥ 100 mg/l  Effect dose concentration: NOEC  Test duration: 72 hour(s)  Species: Pseudokirchneriella subcapitata  Method: OECD 201  Comments: Applies to CAS-nr.: 13463-67-7.</p>
Aquatic toxicity, crustacean	<p>Toxicity type: Acute  Value: &gt; 1000 mg/l  Effect dose concentration: EC50  Comments: Applies to CAS-nr.: 13463-67-7.</p>
Ecotoxicity	The chemical is not classified as harmful to the environment.

## 12.2. Persistence and degradability

Persistence and degradability description/evaluation	Not readily biodegradable.
--	----------------------------

## 12.3. Bioaccumulative potential

Bioaccumulation, comments	The chemical does not contain any substances that are considered bioaccumulative.
---------------------------	---

## 12.4. Mobility in soil

Mobility	Insoluble in water.
----------	---------------------

## 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	The chemical contains no PBT or vPvB substances.
------------------------------------	--

## 12.6. Endocrine disrupting properties

Endocrine disrupting properties	This chemical does not contain any known or suspected endocrine disruptors.
---------------------------------	---

## 12.7. Other adverse effects

Ozone depletion potential	Comments: The chemical contains no substances classified as hazardous to the ozone layer.
Additional ecological information	<p>The chemical contains no substances which are known to contribute to the greenhouse effect.</p> <p>Do not allow to enter into sewer, water system or soil.</p>

## SECTION 13: Disposal considerations



### 13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Dispose of on site landfill area. The waste code (EWC-Code) is intended as a guide. The user must select a code if the use differs from the one mentioned below.
EWC waste code	EWC waste code: 080410 waste adhesives and sealants other than those mentioned in 08 04 09 Classified as hazardous waste: No
EWL packing	EWC waste code: 150101 paper and cardboard packaging Classified as hazardous waste: No  EWC waste code: 150102 plasticpackaging Classified as hazardous waste: No  EWC waste code: 150104 metallicpackaging Classified as hazardous waste: No
Other information	Do not empty into drains.

## SECTION 14: Transport information

Dangerous goods No

### 14.1. UN number

Comments Not considered as dangerous goods under UN, IMO, ADR/RID or IATA/ICAO regulations.

### 14.2. UN proper shipping name

Comments Not relevant.

### 14.3. Transport hazard class(es)

Comments Not relevant.

### 14.4. Packing group

Comments Not relevant.

### 14.5. Environmental hazards

IMDG Marine pollutant No

### 14.6. Special precautions for user

Special safety precautions for user Not relevant.

### 14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk (yes/no) No

Ship type required Data lacking.

## SECTION 15: Regulatory information

## 15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

References (laws/regulations)	<p>Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP-regulation) with later amendments.</p> <p>Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH Regulation), with later amendments.</p> <p>The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).</p> <p>The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009.</p>
-------------------------------	--

## 15.2. Chemical safety assessment

Chemical safety assessment performed	No
--------------------------------------	----

## SECTION 16: Other information

Supplier's notes	The information contained in this SDS must be made available to all those who handle the product.
List of relevant H-phrases (Section 2 and 3)	H351 Suspected of causing cancer .
Key literature references and sources for data	Suppliers Safety data sheet dated: 25.02.2021.
Abbreviations and acronyms used	<p>ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road</p> <p>EWC: European Waste Code (a code from the EU's common classification system for waste)</p> <p>IATA: The International Air Transport Association</p> <p>ICAO: The International Civil Aviation Organisation</p> <p>IMDG: The International Maritime Dangerous Goods Code</p> <p>PBT: Persistent, Bioaccumulative and Toxic</p> <p>RID: The Regulations concerning the International Carriage of Dangerous Goods by Rail</p> <p>vPvB: very Persistent and very Bioaccumulative</p>
Information added, deleted or revised	Relevant changes compared to the previous version of the safety data sheet are indicated with verticle lines in the left margin.
Checking quality of information	This SDS is quality controlled by Kiwa Teknologisk Institutt in Norway, certified according to the Quality Management System requirements specified in ISO 9001:2015.
Version	2
Prepared by	Kiwa Teknologisk Institutt as, Norway by Sharon M. Løver