

**E. S. EASY SEAL**

Creation date	08th February 2021	Version	2.1
Revision date			

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

- 1.1. Product identifier** E. S. EASY SEAL  
Substance / mixture mixture  
Number R 34919; R 34918 - BLACK
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Barrier (Sealant).
- The use descriptors**
- |         |   |
|---------|---|
| SU 17   | General manufacture, e.g. machinery, equipment, vehicles, other transport equipment     |
| SU 19   | Building and construction work  |
| PC 1    | Adhesives, sealants   |
| PROC 8a | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities |
| PROC 8b | Transfer of substance or mixture (charging and discharging) at dedicated facilities     |
| PROC 10 | Roller application or brushing  |
| ERC 5   | Use at industrial site leading to inclusion into/onto article                           |
| ERC 8b  | Widespread use of reactive processing aid (no inclusion into or onto article, indoor)   |

**Mixture uses advised against**

For professional use only.

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

Name or trade name	RETECH, s.r.o.
Address	Vackova 1541/4, Praha 5 - Stodůlky, 155 00 Czech Republic
Identification number (CRN)	25018205
VAT Reg No	CZ25018205
Phone	+420327596428
E-mail	info@retech.cz
Web address	www.retech.com

**Competent person responsible for the safety data sheet**

Name	RETECH, s.r.o.
E-mail	info@retech.cz

**1.4. Emergency telephone number**

European emergency number: 112

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification of the mixture in accordance with Regulation (EC) No 1272/2008**

The mixture is not classified as dangerous according to Regulation (EC) No 1272/2008.

Full text of all classifications and hazard statements is given in the section 16.

**2.2. Label elements****Supplemental information**

EUH210	Safety data sheet available on request.
EUH208	Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.

**2.3. Other hazards**

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

**E. S. EASY SEAL**

Creation date 08th February 2021  
Revision date Version 2.1

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Mixture of substances and additives specified below.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 015-013-00-7 CAS: 78-40-0 EC: 201-114-5 Registration number: 01-2119492852-28-0000	triethyl phosphate	4,5-<5,0	Acute Tox. 4, H302 Eye Irrit. 2, H319	
CAS: 1760-24-3 EC: 217-164-6 Registration number: 01-2119970215-39	N-(3-(trimethoxysilyl)propyl)ethylenediamine	0,8-0,9	Skin Sens. 1B, H317 Eye Dam. 1, H318 Acute Tox. 4, H332 STOT RE 2, H373	

Full text of all classifications and hazard statements is given in the section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures**

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

**If inhaled**

Terminate the exposure immediately; move the affected person to fresh air. In the event of issues, find medical advice.

**If on skin**

Remove contaminated clothes. Immediately wash with water and soap and rinse thoroughly. In the event of issues, find medical advice. Wash contaminated clothing before reuse.

**If in eyes**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person.

**If swallowed**

Rinse out the mouth with clean water. In the event of issues, find medical help.

**4.2. Most important symptoms and effects, both acute and delayed****If inhaled**

not available

**If on skin**

not available

**If in eyes**

not available

**If swallowed**

not available

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

not available

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, foam, powder. Water mist.

**Unsuitable extinguishing media**

not available

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

Do not breathe smoke.

**5.3. Advice for firefighters**

Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water. Dispose of contaminated extinguishing water and remains after the fire in accordance with the official regulations.

**E. S. EASY SEAL**

Creation date	08th February 2021	Version	2.1
Revision date			

**SECTION 6: Accidental release measures**

- 6.1. Personal precautions, protective equipment and emergency procedures**  
Prevent other leakage. Use personal protective equipment for work. Prevent contact with skin and eyes.
- 6.2. Environmental precautions**  
Prevent contamination of the soil and entering surface or ground water.
- 6.3. Methods and material for containment and cleaning up**  
Ventilate the room. Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13.
- 6.4. Reference to other sections**  
See the Section 7, 8 and 13.

**SECTION 7: Handling and storage**

- 7.1. Precautions for safe handling**  
Use personal protective equipment as per Section 8. Avoid release to the environment. Do not eat, drink or smoke when using this product. Remove contaminated clothing and protective equipment before entering eating areas.
- 7.2. Conditions for safe storage, including any incompatibilities**  
Keep only in original container. Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Protect from sunlight.

Content	Packaging type	Material of package
290 ml	kartuš	PE

- 7.3. Specific end use(s)**  
not available

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

- 8.1. Control parameters**  
**DNEL**

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Workers / consumers	Route of exposure	Value	Effect	Determining method
Consumers	Inhalation	8.7 mg/m <sup>3</sup>	Systemic chronic effects	
Workers	Inhalation	35.3 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Dermal	17 mg/kg bw/day	Systemic acute effects	
Consumers	Dermal	2.5 mg/kg bw/day	Systemic chronic effects	
Workers	Dermal	5 mg/kg bw/day	Systemic acute effects	
Workers	Dermal	5 mg/kg bw/day	Systemic acute effects	

triethyl phosphate

Workers / consumers	Route of exposure	Value	Effect	Determining method
Consumers	Oral	13.3 mg/kg/24hour	Systemic acute effects	
Consumers	Oral	1.66 mg/kg/24hour	Systemic chronic effects	
Consumers	Inhalation	23.12 mg/m <sup>3</sup>	Systemic acute effects	
Consumers	Inhalation	2.89 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Dermal	13.3 mg/m <sup>3</sup>	Systemic acute effects	
Consumers	Dermal	1.66 mg/m <sup>3</sup>	Systemic chronic effects	
Workers	Inhalation	93.6 mg/m <sup>3</sup>	Systemic acute effects	
Workers	Inhalation	11.7 mg/m <sup>3</sup>	Systemic chronic effects	
Workers	Dermal	26.6 mg/kg/24hour	Systemic acute effects	
Workers	Dermal	3.33 mg/kg/24hour	Systemic chronic effects	

**E. S. EASY SEAL**

Creation date	08th February 2021	Version	2.1
Revision date			

**PNEC**

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Route of exposure	Value	Determining method
Freshwater environment	0.062 mg/l	
Seawater	0.0062 mg/l	
Freshwater sediment	0.22 mg/kg	
Sea sediments	0.022 mg/kg	
Water (intermittent release)	0.62 mg/l	
Microorganisms in wastewater treatment plants	25 mg/l	
Soil (agricultural)	0.0085 mg/kg	

triethyl phosphate

Route of exposure	Value	Determining method
Freshwater environment	0.632 mg/l	
Seawater	0.0632 mg/l	
Freshwater sediment	4.83 mg/kg/24hour	
Microorganisms in wastewater treatment plants	298.5 mg/l	
Soil (agricultural)	0.596 mg/kg/24hour	

**8.2. Exposure controls**

Follow the usual measures intended for health protection at work and especially for good ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

**Eye/face protection**

Tightly sealed goggles.

**Skin protection**

Hand protection: Protective gloves resistant to the product. Category III. Material of gloves: Nitrile rubber, NBR. Recommended thickness of the material: ≥ 0.3 mm. When handling in long-term or repeatedly, use protective gloves. Material of gloves: Butyl rubber. Recommended thickness of the material: ≥ 0.4 mm. Penetration time of glove material: > 480 min.

Other protection: protective workwear. Wear category I professional long-sleeved overalls and safety footwear.

**Respiratory protection**

Use a mask with filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation. Filter A.

**Thermal hazard**

Not available.

**Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

**SECTION 9: Physical and chemical properties**

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

Physical state	liquid
Color	black, brown
Odour	mild
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Viscosity	90000 - 145000 cps
Solubility in water	data not available
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available

**E. S. EASY SEAL**

Creation date	08th February 2021	Version	2.1
Revision date			

Density and/or relative density			
Density		1,64 g/cm <sup>3</sup>	
<b>9.2. Other information</b>			
Evaporation rate		data not available	
Vapour density		insoluble	
Content of organic solvents (VOC)		4,50 %	
Max. VOC content in the product in its ready to use condition		75,35 g/l	

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Product reacts slowly with water (ambient humidity) turning into a rubbery solid and producing methanol.

**10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Unknown.

**10.4. Conditions to avoid**

Protect from moisture.

**10.5. Incompatible materials**

Water.

**10.6. Hazardous decomposition products**

Dangerous outcomes such as carbon monoxide and carbon dioxide, heavy smoke and nitrogen oxides are formed at high temperature and in fire.

**SECTION 11: Toxicological information**

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

**Acute toxicity**

Based on available data the classification criteria are not met.

**E. S. EASY SEAL**

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	>2000 mg/kg			

**N-(3-(trimethoxysilyl)propyl)ethylenediamine**

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	2295 mg/kg		Rat	
Dermal	LD <sub>50</sub>	>20000 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	1.49 mg/l	4 hour	Rat	

**triethyl phosphate**

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	1600 mg/kg		Rat	
Dermal	LD <sub>50</sub>	>20000 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	>8817 mg/m <sup>3</sup>		Rat	

**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.

**E. S. EASY SEAL**

Creation date	08th February 2021	Version	2.1
Revision date			

**Respiratory or skin sensitisation**

Based on available data the classification criteria are not met.

**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.

**Toxicity for specific target organ - single exposure**

Based on available data the classification criteria are not met.

**Toxicity for specific target organ - repeated exposure**

Based on available data the classification criteria are not met.

**Aspiration hazard**

Based on available data the classification criteria are not met.

**11.2. Information on other hazards**

not available

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Acute toxicity**

Data for the mixture are not available.

**N-(3-(trimethoxysilyl)propyl)ethylenediamine**

Parameter	Value	Time of exposure	Species	Environment
LC <sub>50</sub>	344 mg/l	96 hour	Fishes (Branchydanio rerio)	
EC <sub>50</sub>	81 mg/l	48 hour	Invertebrates (Daphnia magna)	
EC <sub>50</sub>	126 mg/l	72 hour	Algae (Scenedesmus subspicatus)	

**triethyl phosphate**

Parameter	Value	Time of exposure	Species	Environment
LC <sub>50</sub>	>100 mg/kg	96 hour	Fishes (Danio rerio)	
EC <sub>50</sub>	900 mg/l	72 hour	Algae (Desmodesmus subspicatus)	

**Chronic toxicity**

**triethyl phosphate**

Parameter	Value	Time of exposure	Species	Environment
NOEC	31.6 mg/l		Daphnia (Daphnia magna)	

**More information**

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

**12.2. Persistence and degradability**

Data not available.

**12.3. Bioaccumulative potential**

**E. S. EASY SEAL**

Creation date	08th February 2021	Version	2.1
Revision date			

Not available.

**12.4. Mobility in soil**

Not available.

**12.5. Results of PBT and vPvB assessment**

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

**12.6. Endocrine disrupting properties**

not available

**12.7. Other adverse effects**

Water hazard class 1 (german Regulation, self-assessment): slightly hazardous for water.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Uncured product: 080409. Cured products: 080410.

**Waste management legislation**

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

**Waste type code**

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances \*

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

**Packaging waste type code**

15 01 02 plastic packaging

(\*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

**SECTION 14: Transport information****14.1. UN number or ID number**

Not subject to ADR

**14.2. UN proper shipping name**

not available

**14.3. Transport hazard class(es)**

not available

**14.4. Packing group**

not available

**14.5. Environmental hazards**

No.

**14.6. Special precautions for user**

Reference in the Sections 4 to 8.

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

not available

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

**15.2. Chemical safety assessment**

not available

**SECTION 16: Other information**

**E. S. EASY SEAL**

Creation date	08th February 2021	Version	2.1
Revision date			

**A list of standard risk phrases used in the safety data sheet**

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.

**A list of additional standard phrases used in the safety data sheet**

EUH210	Safety data sheet available on request.
EUH208	Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.

**Other important information about human health protection**

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

**Key to abbreviations and acronyms used in the safety data sheet**

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC <sub>50</sub>	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC <sub>50</sub>	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K <sub>ow</sub>	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

Acute Tox.	Acute toxicity
Eye Dam.	Serious eye damage



# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## E. S. EASY SEAL

Creation date	08th February 2021	Version	2.1
Revision date			

Eye Irrit.	Eye irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
Without classification	Without classification

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### The changes (which information has been added, deleted or modified)

The version 2.1 replaces the SDS version from 18 October 2018. Changes were made in sections 1, 13, 15 and 16.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.