

E. S. EASY SEAL

Creation date 19. October 2018
Revision date Version 2.0

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

- 1.1. Product identifier**
Substance / mixture E. S. EASY SEAL
Number R 34919
- 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 preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities |
| PROC 8b | Transfer of substance or mixture (charging and discharging) at non-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) |
- Disapproved uses of mixture 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 (ID)	25018205
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

RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic; Telephone number: +420 327 596 128 (7.30-16.00 hour)
Poisoning information centre, Na Bojišti 1, Praha, Czech Republic, Tel.: non-stop +420 224 919 293 or +420 224 915 402, Information on health risks only - acute poisoning of humans and animals.

SECTION 2: Hazards identification**2.1. Substance or mixture classification****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**

EUH 210	Safety data sheet available on request.
EUH 208	Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.

2.3. Other hazards

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.

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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.

Inhalation

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

Skin contact

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.

Eye contact

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.

Ingestion

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

Inhalation

not available

Skin contact

not available

Eye contact

not available

Ingestion

not available

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

not available

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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.

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.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

none

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DNEL

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Workers / consumers	Route of exposure	Value	Effect	Determining method
Consumers	Inhalation	8.7 mg/m ³	Systemic chronic effects	
Workers	Inhalation	35.3 mg/m ³	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 ³	Systemic acute effects	
Consumers	Inhalation	2.89 mg/m ³	Systemic chronic effects	
Consumers	Dermal	13.3 mg/m ³	Systemic acute effects	
Consumers	Dermal	1.66 mg/m ³	Systemic chronic effects	
Workers	Inhalation	93.6 mg/m ³	Systemic acute effects	
Workers	Inhalation	11.7 mg/m ³	Systemic chronic effects	
Workers	Dermal	26.6 mg/kg/24hour	Systemic acute effects	
Workers	Dermal	3.33 mg/kg/24hour	Systemic chronic effects	

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 (occasional leak)	0.62 mg/l	
Microorganisms in wastewater treatment plants	25 mg/l	
Soil (agricultural)	0.0085 mg/kg	

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Route of exposure	Value	Determining method
Freshwater environment	0.632 mg/l	

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Route of exposure	Value	Determining method
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

Appearance	paste
Physical state	liquid at 20°C
color	beige
Odour	mild
Odour threshold	data not available
pH	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	data not available
Flash point	data not available
Evaporation rate	data not available
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
flammability limits	data not available
explosive limits	data not available
Vapour pressure	data not available
Vapour density	insoluble
Relative density	data not available
Solubility(ies)	
solubility in water	data not available
solubility in fats	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	90000 - 145000 cps

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Explosive properties	data not available
Oxidising properties	data not available
9.2. Other information	
Density	1.64 g/cm ³
ignition temperature	data not available
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 toxicological effects

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.

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

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD ₅₀	2295 mg/kg		Rat	
Dermal	LD ₅₀	>2000 mg/kg		Rabbit	
Inhalation	LC ₅₀	1.49 mg/l	4 hour	Rat	

triethyl phosphate

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

Skin corrosion/irritation

Based on available data the classification criteria are not met.

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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.

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.

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 ₅₀	344 mg/l	96 hour	Fishes (Branchydanio rerio)	
EC ₅₀	81 mg/l	48 hour	Invertebrates (Daphnia magna)	
EC ₅₀	126 mg/l	72 hour	Algae (Scenedesmus subspicatus)	

triethyl phosphate

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

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Chronic toxicity

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

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

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. 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.

Legislation of waste

Council Directive 75/442/EEC on waste, as amended. Decree No. 383/2001 Coll., on details regarding waste handling as amended. Decree No. 93/2016 Coll., (waste catalogue) 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 dangerous 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

SECTION 14: Transport information**14.1. UN 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. Transport in bulk according to Annex II of Marpol and the IBC Code

not available

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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. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act). Decree No. 432/2003 Coll., laying down conditions for assigning categories to individual jobs, limit values of indices from biological exposure tests, conditions for the sampling of biological materials for biological exposure and the particulars of the reports on work with asbestos and biological agents as amended.

15.2. Chemical safety assessment

not available

More information

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006: Contained substance: Point 52, DIISONONYL PHTHALATE

SECTION 16: Other information**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

EUH 210	Safety data sheet available on request.
EUH 208	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 ₅₀	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
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC ₅₀	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization

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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 ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	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 _{ow}	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
Eye Irrit.	Eye irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure

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. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations 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)

2, 3, 8, 11, 12, 15, 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.