Safety Data Sheet for Elast-O-Sealant according to regulation (EU) 1907/2006 (Changed by regulation (EU) Nr. 453/2010)

1.0 Identification of the substance/mixture and of the company

1.1 Product identifier

Trade name: Elast-O-Sealant
Index-No.: --
EG-No.: --
CAS-No.: --
REACH-Registry-No. of n-Butylacetate: 01-2119485493-29-0000

Other names:--

Use as solvent containing Sealant for professional Uses
See also for this application the exposure scenario from of a supplier

1.2 Relevant identified uses of the substance or the mixture and uses advised against: Use as solvent containing Sealant by professional use

---

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EC or Directive 1999/45/EC (Substances or Mixtures):
Flammable R10

Classification according to Regulation 1272/2008/EU



Flame, Warning
Dangerous component contains: n-Butylacetate
Flammable Fluid category 3

2.2 Label elements

Directive 1999/45/EC (Mixtures)
R-Phrases
R 10 Flammable.
R 66 Repeated exposure may cause skin dryness or cracking
R 67 Vapours may cause drowsiness and dizziness

S-Phrases
23 do not breathe vapour
24/25 avoid contact with skin and eyes
35 this material and its container must be disposed of in a safe way

Regulation 1228/2008/EU
H-Phrases
H226: Flammable liquid and vapour
H336: May cause drowsiness and dizziness
EUH-Phrases
EUH066: Repeated exposure may cause skin dryness or cracking

Precautionary statements
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233: Keep container tightly closed
P403+P235: Store in a well-ventilated place. Keep cool.
P261: Avoid breathing dust/fume/ gas/mist/vapours/spray
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P331+ P358 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312: Call a POISON CENTRE or doctor if you feel unwell

2.3 Other hazards
Vapours may form explosive mixture with air
Components of the product may be absorbed into the body by inhalation

---

3. Composition/ information on ingredients

Mixture: Synthetic rubber (Polymer mixture) and helping substances with the following hazardous Substances
Substance: n-Butylacetate
EG-No.: 204-658-1 CAS-No. : 123-86-4 Index-No.:
REACH-Registry-Number.: 01-2119485493-29-0000
Share: 22-26%

Classification according to Directive 67/548/EC: R 10-66-67
Classification according to Regulation (EU) Nr. 1272/2008:
GHS 02 Flam. Liq. 3 H 226; GHS 07 STOT SE 3 H 336; EUH 066

Substance: Petroleum, Distillate
EC-No.: 265-157-1 CAS-No. : 64742-54-7 Index-No.:
REACH-Registry-Number.: 01-2119484627-25
Share: 31-35%
Classification according to Directive 67/548/EC: no classification
Classification according to Regulation (EU) No. 1272/2008: GHS 8, Asp. Tox. 1 H304

Substance: 2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)
EG-No.: 247-384-8 CAS-No. : 25973-55-1 Index-Nr.:
REACH-Registry-Number.:
Share: approx. 0,2%
Classification according to Directive 67/548/EC: Xn, R 48/22, R 53
Classification according to Regulation (EU) No. 1272/2008: GHS 8, STOT Re Exp. 2 H373, H413

PBT- and vPvB-Assessment: there is with 2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) one substance in the mixture to be persistent, bioaccumulating or toxic (PBT), or very persistent or very bioaccumulating (vPvB) see also ECHA publication from 17. December 2014 to SVHC
(You find the text of the hazardous information in section 15)

---

4. First aid measures

4.1 Description of first aid measures

Remove contaminated, soaked clothing immediately and dispose of safely. First aider needs to protect himself.
After Inhalation Keep at rest. Aerate with fresh air. When symptoms persist or in all cases of doubt seek medical advice

Skin Wash immediately with soap and plenty of water. When symptoms persist or in all cases of doubt seek medical advice
Eyes Rinse immediately with soap and plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

Ingestion Call a physician immediately. Do not induce vomiting without medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Cough, nausea, vomiting, headache,
Lung oedema, central nervous system effects. Prolonged skin contact may defat the skin and produce dermatitis

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

5. Fire-fighting measures

5.1 Suitable extinguishing media: Alcohol-resistant foam, powder, carbon dioxide, water spray
Extinguishing media which must not be used for safety reasons: Do not use a solid water stream as it may scatter and spread fire

5.2 Special hazards arising from the substance or mixture:
Can be released in case of fire: carbon monoxide and carbon dioxide

5.3 Advice for fire-fighters
Wear self-contained breathing apparatus, like EN 133

6. Accidental release measures

6.1 Personal precautions
Avoid contact with skin and eyes. Avoid breathing vapours or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition.
For emergency responders: Personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage. Do not discharge product into the aquatic environment without pre-treatment (biological treatment plant).

6.3 Methods for containment
Stop the flow of material, if possible without risk. Dike spilled material, where this is possible.
Methods for cleaning up
Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Dispose of in accordance with local regulations. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

6.4 Reference to other sections: see also section 7 and 13

---

7. Handling and storage

7.1 Advice on safe handling
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Provide sufficient air exchange and/or exhaust in work rooms.

Advice on protection against fire and explosion
Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). In case of fire, emergency cooling with water spray should be available. Ground and bond containers when transferring material. Vapour is heavier than air and can travel considerable distance to a source of ignition and flashback. Vapours may form explosive mixture with air.

Advice on the protection of the environment
See Section 8: Environmental exposure controls.

Advice on general occupational hygiene
Do not eat, drink and smoke in work

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions
Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care.
Don't store above 60 °C

Advice on common storage
Incompatible products: strong acids and strong bases
strong oxidizing agents
Temperature class T 2

7.3 Specific end uses: solvent containing sealant for joints by professional use
See also Exposition scenario of the supplier to the containing solvent

---

8. Exposure controls / personal protection

8.1 Control parameters

8.1.1 Exposure Limits UK
Component:
n-Butylacetate TWA(mg/m³) TWA (ppm) STEL(mg/m³) STEL (ppm)
CAS 123-86-4 724 150 966 200
Silicon dioxide
CAS 7631-86-9 OEL 6mg/m3 Inhalable dust/mist OEL 2,4 mg/m3 respirable dust/mist
Mineral Oil (Fog)
CAS 64742-54-7 Mixture of hydrocarbons
ACGIH: TWA 5 mg/m3
Note: For details and further information please refer to the original regulation.

8.1.2 DNEL- and PNEC- Data n-Butylacetate CAS 123-86-4
Worker

DN(M)EL - acute / short-term exposure - systemic effects – Inhalation	960 mg/m³
DN(M)EL - acute / short-term exposure - local effects – Inhalation	960 mg/m³
DN(M)EL - long-term exposure - systemic effects – Inhalation	480 mg/m³
DN(M)EL - long-term exposure - local effects – Inhalation	480 mg/m³

People

DN(M)EL - acute / short-term exposure - systemic effects - Inhalation	859,7 mg/m³
DN(M)EL - acute / short-term exposure - local effects – Inhalation	859,7 mg/m³
DN(M)EL - long-term exposure - systemic effects – Inhalation	102,34 mg/m³
DN(M)EL - long-term exposure - local effects – Inhalation	102,34 mg/m³

Environment	
PNEC aqua – freshwater	0,18 mg/l
PNEC aqua - marine water	0,018 mg/l
PNEC aqua - intermittent releases	0,36 mg/l
PNEC STP	35,6 mg/l
PNEC sediment - freshwater	0,981 mg/kg
PNEC sediment - marine water	0,0981 mg/l
PNEC soil	0,0903 mg/kg

Data by supplier of n-Butylacetate
Exposure limits European Union: for n-Butylacetate, Silicon dioxide and Petroleum are no exposure limits established

8.2 Occupational exposure controls

8.2.1 Engineering measures

General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

8.2.2. Personal protective equipment

General industrial hygiene practice
Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene measures
When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

Respiratory protection
Respirator with A filter. Full mask with above mentioned filter according to producers using requirements or self-contained breathing apparatus. Equipment should conform to EN 136 or EN 140 and EN 143.

Hand protection
Wear protective gloves. Recommendations are listed below. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

Suitable material butyl-rubber
Evaluation according to EN 374, level 3
Glove thickness approx 0,3 mm
Break through time approx 60 min
Suitable material polyvinylchloride /nitrile rubber

Evaluation according to EN 374, level 2
Glove thickness approx 0,9 mm
Break through time approx 30 min

Eye protection
Tightly fitting safety goggles. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face. Equipment should conform to EN 166.

Skin and body protection
Impervious clothing. Wear face-shield and protective suit for abnormal processing problems.
Note: the information to protection according to the dangerous substance n-Butylacetate

8.2.3 Environmental exposure controls If possible use in closed systems. If leakage cannot be prevented, the substance needs to be suck off at the emersion point, if possible without danger. Observe the exposure limits, clean exhaust air if needed. If recycling is not practicable, dispose of in compliance with local regulations. Inform the responsible authorities in case of leakage into the atmosphere, or of entry into waterways, soil or drains

---

9. Physical and Chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Liquid with high viscosity
- Aggregate state:	polymer, containing a solvent (liquid)
- Colour:	transparent and coloured
Odour:	Like Butylacetate
Odour threshold:	7-20 ppm (n-Butylacetate)
pH-value:	6,2 (n-Butylacetate data of supplier)
Melting point:	Not applicable
Bolin point and boiling range:	126 °C (solvent n-Butylacetate)
Flashpoint:	27 °C like the solvent n-Butylacetate, Vapour from n-Butylacetate
Evaporating rate :	Not applicable
Flammability (solid, gas):	No data
Upper/lower flammability ore explosive limits:	1,2 % (lower limit n-Butylacetate) 7,5 % (upper limit n-Butylacetate)
Vapour pressure:	15 mbar bei 20 °C (n-Butylacetate)
Vapour densitiy :	4 (air =1) bei 20 °C (n-Butylacetate)
Relative density :	0,93 g/cm3 (20 °C)
Solubility:	Not soluble in water
Partition coefficient: n-Octanol/Water:	Not applicable
Auto-ignition temperature:	Not applicable
Decomposition temperature:	No data available
Viscosity:	15.000 mPas (20 °C)
Explosive properties:	Not applicable
Oxidising properties:	Not applicable

9.2 Other information

VOC: approx. 24 %
Containing Solvent: approx. 24 % n-Butylacetate

---

10. Stability and reactivity

10.1 Reactivity: no data known

10.2 Chemical Stability Stable if used and stored according to the specifications

10.3 Possibility of hazardous reactions: vapours can form with air explosive mixtures

10.4 Conditions to be avoid: strong acids and strong bases, also strong oxidants

10.5 Incompatible materials: no data known

10.6 Hazardous decomposition products: see also section 5

---

11. Toxicological information

11.1 Acute Toxicity (all data corresponding to n-Butylacetate)
oral: LD50 10760 mg/kg OECD 423
dermal: LD50 >14000 mg/kg OECD 402
inhalative: LC0 23,4 mg/l OECD 403
Petroleum Toxicity: LD50 > 5000 mg/kg , and UV 328 in a matrix, no acute toxic effects

11.2 Irritation and Corrosion
Skin: no skin irritation OECD 404
Eye: no eye irritation OECD 405

11.3 Sensitization not sensitizing: skin, OECD 406

11.4 Additional toxicologial notes: dizziness, narcosis, cough, nausea, vomiting, headache, unconsciousness, shortness of breath. Components (n-butylacetate) of the product may be absorbed into the body by inhalation.
Carcinogenicity, Mutagenicity, Reproductive toxicity (CMR): no effects

---

12. Ecological information

12.1 Toxicity Fish toxicity LC50 18 mg/l (96h) (American Phoxinus phoxinus) OECD 203
Daphnia toxicity EC50 44 mg/l (48h) (Daphnia magna)
(Data from dangerous substance n-Butylacetate)

12.2 Persistence and degradability
Biodegradation 83 % (28 d), aerobic, Readily biodegradable, OECD 301 D.
(dangerous substance n-Butylacetate)

12.3 Bioaccumulative potential no data available

12.4 Mobility in soil no data available

12.5 Results of PBT and vPvB assessment
there is with 2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) one substance in the mixture to be persistent, bioaccumulating or toxic (PBT), or very persistent or very bioaccumulating (vPvB) see ECHA from 17. December 2014 to SVHC

---

13. Disposal considerations

13.1 Waste treatment methods
Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal

Uncleaned empty packaging: Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.
Empty plastic packaging: 150102

European Waste Catalogue (EU)
08 04 09 waste adhesives and sealants containing organic solvents or other dangerous substances.
Extra caution: Leave waste to a dump or to a plant for burning waste
Other EU or national legislation ---

Ship type (1, 2 oder 3) : no

---

14. Regulatory information

14.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Classification according to Directive 1999/45/EC:
Hazard symbols: --
Hazard classification: flammable (R 10)

R-Phrases (raw materials)
R 10 Flammable.
R 48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R 53 May cause long-term adverse effects in the aquatic environment
R 66 Repeated exposure may cause skin dryness or cracking
R 67 Vapours may cause drowsiness and dizziness

S-Phrases

23 do not breathe vapour
24/25 avoid contact with skin and eyes
35 this material and its container must be disposed of in a safe way

Classification according to Regulation 1272/2008/EU



Flame, Warning
Dangerous component contains: n-Butylacetate
Flammable Liquid category 3

H-Phrases (raw materials)
H226: Flammable liquid and vapour
H304: May be fatal if swallowed and enters airways
H336: May cause drowsiness and dizziness
H373: May cause damage to organs through prolonged or repeated exposure.
H413: May cause long lasting harmful effects to aquatic life.
EUH-Phrases
EUH066: Repeated exposure may cause skin dryness or cracking

P-Phrases
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233: Keep container tightly closed
P403+P235: Store in a well-ventilated place. Keep cool.
P261: Avoid breathing dust/fume/ gas/mist/vapours/spray
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P331+ P358 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312: Call a POISON CENTRE or doctor if you feel unwell