Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 16.02.2022 Version number 9 (replaces version 8) Revision: 16.02.2022

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

1.1 Product identifier

Trade name: U-Seal 816
UFI: AG31-F511-8K7A-8XX7

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:
One part polyurethane sealant, moisture curing and self-leveling, suitable for construction.

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
PENETRON HELLAS S.A.
50, THRAKOMAKEDONON AV., 136 79 ACHARNES, GREECE
TEL.: +30 210 2448250 - FAX: + 30 210 2476803
Email: info@penetron.gr Site: www.penetron.gr

1.4 Emergency telephone number:

European Emergency Tel.: 112

*
SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation EC No 1272/2008 CLP:

GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.2 Label elements
Labelling according to Regulation EC No 1272/2008 CLP:
The product is classified and labelled according to the CLP regulation.
Hazard pictograms:

GHS08

Signal word: Danger

Hazard-determining components of labelling:
4,4'-methylenediphenyl diisocyanate
diphenylmethane diisocyanate,isomeres and homologues
tris(nonylphenyl) phosphite

Hazard statements:
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

(Contd. on page 2)

Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 16.02.2022 Version number 9 (replaces version 8) Revision: 16.02.2022

Trade name: U-Seal 816

(Contd. of page 1)

Precautionary statements
P284 [In case of inadequate ventilation] wear respiratory protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
Additional information:
EUH204 Contains isocyanates. May produce an allergic reaction.
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
As from 24 August 2023 adequate training is required before industrial or professional use.
2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

*
SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: Mixture: consisting of the following components.

Ingredients according Regulation (EU) 2020/878:		
CAS: 28553-12-0 EINECS: 249-079-5 Reg.nr.: 01-2119430798-28-XXXX	diisononyl phthalate substance with a Community workplace exposure limit	≥10.5-<12%
CAS: 13463-67-7 EINECS: 236-675-5 Reg.nr.: 01-2119489379-17-XXXX	Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] Classification notes according to Annex VI to the CLP Regulation: 10, V, W Carc. 2, H351, EUH211, EUH212	≥3.5-<4%
CAS: 136855-71-5	N,N-dibenzyliden polyoxypropylene diamine (polymer) Skin Irrit. 2, H315	≥2-<2.5%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-XXXX	Xylene Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	≥1-<1.5%
CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9 Reg.nr.: 01-2119457014-47-XXXX	4,4'-methylenediphenyl diisocyanate Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 %	≥0.89-<1%

(Contd. on page 3)

Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 16.02.2022 Version number 9 (replaces version 8) Revision: 16.02.2022

Trade name: U-Seal 816

(Contd. of page 2)

CAS: 2530-83-8 EINECS: 219-784-2	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane Eye Dam. 1, H318	≥0.6-<0.7%
CAS: 9016-87-9	diphenylmethane diisocyanate,isomeres and homologues Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 %	≥0.4-<0.45%
CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5 Reg.nr.: 01-2119475103-46-XXXX	ethyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	≥0.15-<0.2%
CAS: 26523-78-4 EINECS: 247-759-6 Index number: 015-202-00-4 Reg.nr.: 01-2119520601-54-XXXX	tris(nonylphenyl) phosphite Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317	≥0.15-<0.2%
CAS: 52829-07-9 EINECS: 258-207-9 Reg.nr.: 01-2119537297-32-XXXX	bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate Repr. 2, H361f; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411	≥0.15-<0.2%
CAS: 108-94-1 EINECS: 203-631-1 Index number: 606-010-00-7	cyclohexanone Flam. Liq. 3, H226; Acute Tox. 4, H332	≥0.05-<0.1%

SVHC

CAS: 26523-78-4	tris(nonylphenyl) phosphite

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:
No special measures required.
Take affected persons out into the fresh air.

After inhalation:
In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air and to be sure call for a doctor.
Seek medical treatment in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Avoid strong water jet-risk of cornea damage, consult a doctor.

After swallowing:
Drink plenty of water and provide fresh air. Call for a doctor immediately.

(Contd. on page 4)

Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 16.02.2022 Version number 9 (replaces version 8) Revision: 16.02.2022

Trade name: U-Seal 816

(Contd. of page 3)

Seek immediate medical advice.
4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.
4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents:
Carbon dioxide, foam, chemical powder. For losses and product leaks that are not burned, it can be used water spray jet to disperse flammable vapors and protect carers to inhibit leakage.
For safety reasons unsuitable extinguishing agents:
Do not use water pressure. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.
5.2 Special hazards arising from the substance or mixture No further relevant information available.
5.3 Advice for firefighters
General Information:
Use water jets to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.
Equipment:
Normal clothing for firefighting, including a breathing open-circuit compressed air breathing apparatus (EN 137), fireproof clothing (EN469), fire-proof gloves (EN 659) and boots Firefighters (HO A29 or A30).
Additional information
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:
Goggles and/ or face shield, if contact with eyes or splashes are anticipated.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
Keep away from ignition sources.
Avoid contact with skin and eyes.
Avoid the contact with spilled material.
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:
Dispose contaminated material as waste according to item 13.
Do not flush with water or aqueous cleansing agents
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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with skin, eyes and clothing.
Prevent formation of dust.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Use in well ventilated areas.

(Contd. on page 5)

Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 16.02.2022 Version number 9 (replaces version 8) Revision: 16.02.2022

Trade name: U-Seal 816

(Contd. of page 4)

Store in cool, dry place in tightly closed receptacles.
Avoid prolonged exposure with skin
Information about fire - and explosion protection:
Keep it in a dry, cool, well ventilated, fixed in advance place, away from sources of heat, flames, ignition and direct sunlight.


Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.
7.2 Conditions for safe storage, including any incompatibilities
Storage:
Store in a cool location.
Provide ventilation for receptacles.
Keep away from sources of ignition.
Requirements to be met by storerooms and receptacles: Keep only in the original container.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: None.
7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
CAS: 28553-12-0 diisononyl phthalate	
WEL (Great Britain)	Long-term value: 5 mg/m³
CAS: 13463-67-7 Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] **Classification notes according to Annex VI to the CLP Regulation: 10, V, W**	
WEL (Great Britain)	Long-term value: 10* 4** mg/m³ *total inhalable **respirable
CAS: 1330-20-7 Xylene	
WEL (Great Britain)	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV
IOELV (EU)	Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm Skin
CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate	
WEL (Great Britain)	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO
CAS: 9016-87-9 diphenylmethane diisocyanate,isomeres and homologues	
WEL (Great Britain)	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO

(Contd. on page 6)

Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 16.02.2022 Version number 9 (replaces version 8) Revision: 16.02.2022

Trade name: U-Seal 816

(Contd. of page 5)

DNELs
CAS: 1330-20-7 Xylene (mixture of isomers)
Workers:
Dermal, Long-term exposure, Systemic, 212 mg/kg
Inhalation, Long-term exposure, Systemic, 221 mg/ml
Inhalation, Acute exposure, Systemic, 442 mg/kg
Consumers:
Oral, Long exposure, Systemic, 12.5 mg/kg
Dermal, Long-term exposure, Systemic, 125 mg/kg
Inhalation, Long Exposure, Systemic, 65.3 mg/m³
4,4'-methylenediphenyl diisocyanate | CAS: 101-68-8.
DNEL Workers:
Inhalation - Intensive local effect: 0.1 mg/m³
Inhalation - Strong systemic effect: 0.1 mg/m³
Inhalation - Chronic systemic & local incidence: 0.05 mg/m³

DNEL Consumers:
Mouth - Chronic systemic effect: 20 mg/kg bw/d
Inhalation - Intensive local effect: 0.05 mg/m³
Inhalation - Intensive systemic effect: 0.05 mg/m³
Inhalation - Chronic local incidence: 0.025 mg/m³
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | CasNo: 52829-07-9.
Consumers:
Oral: chronic systemic effect - 1 mg/kg
systemic effect - 1 mg/kg
Inhalation: Acute systemic effect - 1.4 mg/m³
chronic systemic incidence - 1,4 mg/m³
Dermal: Acute systemic effect - 1 mg/kg
chronic systemic effect - 1 mg/kg

Workers:
Inhalation: chronic & acute systemic effect - 5.6 mg/m³
Dermal: chronic & acute systemic effect - 2 mg/kg
Ethyl acetate | CAS: 141-78-6.
Workers:
Acute systemic effects inhalation 1468 mg/m³
Acute Local effects inhalation 1468 mg/m³
Long Term systemic effects dermal 63 mg/kg bw/day
Long Term systemic effects inhalation 34 mg/m³
Long Term local effects inhalation 734 mg/m³
General population:
Acute systemic effects inhalation 734 mg/m³
Acute local effectsτ inhalation 734 mg/m³
Long Term systemic effects dermal 37 mg/kg bw/day
Long Term systemic effects inhalation 367 mg/m³
Long Term systemic effects oral 4.5 mg/kg bw/day
Long Term local effects inhalation 367 mg/m³
PNECs
4,4'-methylenediphenyl diisocyanate | CAS: 101-68-8.
PNEC:
in fresh water 1.01 mg/l
in marine water 0.11 mg/l

(Contd. on page 7)

Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 16.02.2022 Version number 9 (replaces version 8) Revision: 16.02.2022

Trade name: U-Seal 816

(Contd. of page 6)

for micro-organisms STP 1,01 mg/l
for the terrestrial area of 1,01 mg/kg
Xylol (cas: 1330-20-7)
Fresh water: 0.327 mg / l (-)
Marine water: 0.327 mg / l (-)
Intermittent releases: 0.327 mg / l (-)
Fresh water sediment: 12.46 mg / l (-)
Marine water sediment: 12.46 mg / l (-)
Soil: 2.31 mg / kg (-)
STP: 6.58 mg / l (-)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | CasNo: 52829-07-9.
fresh water 0,005 mg/l
marine water 0,0005 mg/l
sediments in fresh water 8.02 mg/kg
sediment in seawater 0.802 mg/kg
for micro-organisms STP 1 mg/l
for the terrestrial compartment of 1,6 mg/kg
Ethyl acetate | CAS: 141-78-6.
Fresh water 0.26 mg/l
Marine water 0.026 mg/l
Sediment fresh water 0.34 mg/kg ίζημα dw
Sediment marine water 0.034 mg/kg ίζημα dw
Soil 0.22 mg/kg soil dw
STP 650 mg/l

8.2 Exposure controls

8.2.1. Appropriate engineering controls Provide adequate ventilation.

Individual protection measures, such as personal protective equipment
General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Be sure to clean skin thoroughly after work and before breaks.
Avoid contact with the eyes and skin.
Do not eat, drink or smoke while using the product.
Do not breathe vapours or mists.
The usual precautionary measures are to be adhered to when handling chemicals.
Respiratory protection:

In case of exceeding the threshold value (eg, TLV-TWA) of the substance or one or more of the substances present in the product, it is advisable to wear a mask with filter type A for organic vapors, the class (1, 2 or 3) must be chosen according to the limit concentration of use (1000, 5000 or 10000 ppm) (ref. standard EN 14387).

Hand protection

Protective gloves resistant to chemicals (standard EN 374-1)

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 8)

Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 16.02.2022 Version number 9 (replaces version 8) Revision: 16.02.2022

Trade name: U-Seal 816

(Contd. of page 7)

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 mixture 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. For the final choice of material you need to assess the type of use. In case of contact for the short term or as protection against splashes, use gloves made of nitrile (0.3mm thickness, permeation time >480 min.). In the event of continued exposure use butyl rubber gloves (0.4mm thickness, permeation time> 480 min.). Contaminated gloves should be removed.

Penetration time of glove material
The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye/face protection

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:
Use working clothes with long sleeves and safety footwear for professional use category I (ref. Community Directive 89/686 / CEE and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Physical state	Paste
Colour:	Various
Odour:	typical
Odour threshold:	Not determined
Flammability	Not applicable
Lower and upper explosion limit	
Lower:	Not determined
Upper:	Not determined
Flash point:	Not Flammable
Decomposition temperature:	Not determined
pH	Not determined
Viscosity:	
Kinematic viscosity	Not determined
Dynamic:	40000 - 80000 cps
Solubility	
water:	Insoluble
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure:	Not determined
Density and/or relative density	
Density:	Not determined
Relative density	1.48-1.52 (ISO 1183-1 A)
Vapour density	Not determined

9.2 Other information VOC (Directive 2010/75/EC) : 3,28 % - 48,87 g/l.

(Contd. on page 9)

Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 16.02.2022 Version number 9 (replaces version 8) Revision: 16.02.2022

Trade name: U-Seal 816

(Contd. of page 8)

Appearance:	
Form:	Paste
Important information on protection of health and environment, and on safety.	
Auto-ignition temperature:	Not determined
Explosive properties:	Product does not present an explosion hazard.
Cloud point / clarification point:	
Oxidising properties	No data available
Evaporation rate	Not determined

Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity
Phosphoric acid: decomposes at temperatures greater than 200 °C/392°F.
There are no particular risks of reaction with other substances in normal conditions of use.
ETHYL ACETATE
Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.
10.2 Chemical stability Material is stable under normal conditions.
Thermal decomposition / conditions to be avoided
No decomposition if used and stored according to specifications.
Stable at environment temperature.
10.3 Possibility of hazardous reactions
The vapours may also form explosive mixtures with the air.
ETHYL ACETATE
Risk of explosion on contact with: alkaline metals,hydrides,oleum.May react violently with: fluorine,strong oxidising agents,chlorosulphuric
acid,potassium tert-butoxide.Forms explosive mixtures with: air.
PHOSPHORIC ACID
Risk of explosion on contact with: nitromethane.May react dangerously with: alkalis,sodium borohydride.

(Contd. on page 10)

Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 16.02.2022 Version number 9 (replaces version 8) Revision: 16.02.2022

Trade name: U-Seal 816

(Contd. of page 9)

10.4 Conditions to avoid
Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.
ETHYL ACETATE
Avoid exposure to: light,sources of heat,naked flames.
10.5 Incompatible materials
Phosphoric acid: Metals, strong alkalis, aldehydes, sulphides and peroxides.
ETHYL ACETATE
Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.
10.6 Hazardous decomposition products
In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.
PHOSPHORIC ACID
May develop: phosphoryl oxides.

*
SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
ATE (Acute Toxicity Estimates)		
Dermal	LD50	>113,333-≤170,000 mg/kg (rabbit)

CAS: 28553-12-0 diisononyl phthalate		
Oral	LD50	>10,000 mg/kg (rat)
Dermal	LD50	>3,160 mg/kg (rabbit)
CAS: 13463-67-7 Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] Classification notes according to Annex VI to the CLP Regulation: 10, V, W		
Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LC50/4 h (vapour)	>6.82 mg/l (rat)
CAS: 1330-20-7 Xylene		
Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	1,700 mg/kg (rabbit)
Inhalative	LC50 (4h)	5,000 ppm (rat)
CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate		
Oral	LD50	2,200 mg/kg (rat)
Dermal	LD50	>9,400 mg/kg (rabbit)
CAS: 9016-87-9 diphenylmethane diisocyanate,isomeres and homologues		
Oral	LD50	>10,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LC50/4 h (vapour)	0.493 mg/l (rat) (OECD 401)
		0.493 mg/l (rabbit)

(Contd. on page 11)

Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 16.02.2022 Version number 9 (replaces version 8) Revision: 16.02.2022

Trade name: U-Seal 816

(Contd. of page 10)

CAS: 141-78-6 ethyl acetate		
Oral	LD50	5,620 mg/kg (rabbit)
Inhalative	LC50/4 h (vapour)	1,600 mg/l (rat)
CAS: 52829-07-9 bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate		
Oral	LD50	3,700 mg/kg (rat)
Dermal	LD50	>3,170 mg/kg (rat)
Inhalative	LC50/4 h (vapour)	0.5 mg/l (rat)
CAS: 108-94-1 cyclohexanone		
Oral	LD50	1,535 mg/kg (rat)
Dermal	LD50	948 mg/kg (rabbit)
Inhalative	LC50/4 h (vapour)	8,000 mg/l (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.
Respiratory or skin sensitisation May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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.
Aspiration hazard Based on available data, the classification criteria are not met.
Additional toxicological information:
Sensitisation
Sensitising for the respiratory system.
May produce an allergic reaction.
Sensitization possible through skin contact
Repeated dose toxicity Based on available data, the classification criteria are not met.
11.2 Information on other hazards

Endocrine disrupting properties
None of the ingredients is listed.

*
SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity:
Phosphorus tris (nonylphenyl ester) | CasNo: 26523-78-4.
LC50 - Fish 7.1 mg/l/96h Danio rerio

Diphenylmethane-diisocyanate, isomers and homologues | CasNo: 9016-87-9.
LC50 - Fish> 1000 mg/l/96h Danio rerio
EC50 - Algae / Aquatic Plants> 1640 mg/l/72h Scenedesmus subspicatus
Chronic NOEC Shellfish> 10 mg/l Daphnia magna

4,4'-methylenediphenyl diisocyanate | CasNo: 101-68-8.
LC50 - Fish> 1000 mg/l/96h Danio rerio
EC50 - Algae / Aquatic Plants> 1640 mg/l/72h Scenedesmus subspicatus
Chronic NOEC Shellfish> 10 mg/l Daphnia magna
NOEC Chronic Algae / Aquatic Plants 1640 mg/l Desmodesmus subspicatus

(Contd. on page 12)

Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 16.02.2022 Version number 9 (replaces version 8) Revision: 16.02.2022

Trade name: U-Seal 816

(Contd. of page 11)

Bis (2,2,6,6-tetramethyl-4-piperidyl) sebacate | CasNo: 52829-07-9.
LC50 - Fish 4.4 mg/l/96h Brachydanio rerio
EC50 - Shellfish 0.57 mg/l/48h Daphnia sp.
EC50 - Algae / Aquatic Plants 1.9 mg/l/72h Scenedesmus subspicatus

Ethyl acetate CasNo: 141-78-6.
LC50 - Fish> 212 mg/l/96h
EC50 - Shellfish 260 mg/l/48h Daphnia pulex

Xylene | CasNo: 1330-20-7.
LC50 - Fish 2.6 mg/l/96h Oncorhynchus mykiss
EC50 - Algae / Aquatic Plants 4.36 mg/l/72h Pseudokirchneriella subcapitata
NOEC Chronic Fish> 1.3 mg/l Oncorhynchus mykiss
Chronic NOEC Shellfish 1.57 mg/l Daphnia magna

CAS: 28553-12-0 diisononyl phthalate	
EC50 (72h)	>88 mg/l (ssu)
EC50 (48h)	>74 mg/l (Daphnia magna)
LC50 (96h)	>102 mg/l (Danio rerio)

12.2 Persistence and degradability
TRIS(NONYLPHENYL)PHOSPHITE - NOT rapidly degradable.
DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES - NOT rapidly degradable.
BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)SEBACATE - NOT rapidly degradable.
PHOSPHORIC ACID - Solubility in water > 850000 mg/l_Degradability: information not available.
ETHYL ACETATE - Solubility in water > 10000 mg/l_Rapidly degradable.
XYLENE (BENZENE <0.01%) - Rapidly degradable.
12.3 Bioaccumulative potential
ETHYL ACETATE
Partition coefficient: n-octanol/water 0,68
BCF 30
12.4 Mobility in soil No further relevant information available.
12.5 Results of PBT and vPvB assessment
Based on available data, the product does not contain PBT or vPvB in an amount greater than 0.1%.
PBT: Not applicable.
vPvB: Not applicable.
12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
12.7 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation
Reuse, when possible. Product residues should be considered special hazardous waste.
The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.
Contact manufacturer for recycling information.

(Contd. on page 13)

Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 16.02.2022 Version number 9 (replaces version 8) Revision: 16.02.2022

Trade name: U-Seal 816

(Contd. of page 12)

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number
ADR, ADN, IMDG, IATA Void
14.2 UN proper shipping name
ADR, ADN, IMDG, IATA Void
14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA
Class Void
14.4 Packing group
ADR, IMDG, IATA Void
14.5 Environmental hazards: Not applicable.
14.6 Special precautions for user Not applicable.
14.7 Maritime transport in bulk according to IMO instruments Not applicable.
UN "Model Regulation": Void

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
REACH Regulation 1907/2006/EC
Regulation (EU) 2020/878
CLP Regulation 1272/2008/EC
Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.
Council Directive 94/33/EC on the protection of young people at work, as ammended.
Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as ammended
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 52a, 56a, 74

National regulations:

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57	
CAS: 26523-78-4	tris(nonylphenyl) phosphite

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.

(Contd. on page 14)

Safety data sheet
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Trade name: U-Seal 816

(Contd. of page 13)

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H361f Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.
EUH204 Contains isocyanates. May produce an allergic reaction.
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

Training hints
Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

Department issuing SDS:

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Version number of previous version: 8

Abbreviations and acronyms:
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
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
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Carc. 2: Carcinogenicity – Category 2

(Contd. on page 15)

Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)

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Trade name: U-Seal 816

(Contd. of page 14)

Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

*** Data compared to the previous version altered.**