



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: SEAL & FIX

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

Relevant uses: Adhesive

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

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1.4 Emergency telephone number:

National Poisoning Center 2107793777

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:
 - Directive 67/548/EC and Directive 1999/45/EC:

This product was classified in accordance with Directive 67/548/EC and Directive 1999/45/EC, adapting the requirements to Regulation (EC) n°1907/2006 (REACH regulation).

- F: R11 Highly flammable
- Xi: R36 Irritating to eyes
- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R66 Repeated exposure may cause skin dryness or cracking
- R67 Vapours may cause drowsiness and dizziness
- CLP Regulation (EC) nº 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) nº 1272/2008.

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3 Eye Irrit. 2: Eye irritation, Category 2 Flam. Liq. 2: Flammable liquids, Category 2

STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3

2.2 Label elements:

Directive 67/548/EC and Directive 1999/45/EC:

In accordance with the legislation, the elements on the label are as follows:



R Phrases:

R11: Highly flammable R36: Irritating to eyes R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment R66: Repeated exposure may cause skin dryness or cracking R67: Vapours may cause drowsiness and dizziness S Phrases: S16: Keep away from sources of ignition - No smoking S2: Keep out of the reach of children S43: In case of fire, use polyvalent powder ABC S46: If swallowed, seek medical advice immediately and show this container or label S9: Keep container in a well-ventilated place Supplementary information: Non-applicable CLP Regulation (EC) n° 1272/2008: Danger





SECTION 2: HAZARDS IDENTIFICATION (continue)



Hazard statements:

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects Eye Irrit. 2: H319 - Causes serious eye irritation Flam. Liq. 2: H225 - Highly flammable liquid and vapour STOT SE 3: H336 - May cause drowsiness or dizziness

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand

P102: Keep out of reach of children

P103: Read label before use

P280: Wear protective gloves/protective clothing/eye protection/face protection

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 person to fresh air and keep comfortable for breathing

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment

Supplementary information:

EUH066: Repeated exposure may cause skin dryness or cracking

Substances that contribute to the classification

2-butanone; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

2.3 Other hazards:

Non-applicable

Chemical description:

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture composed of additives and resins in solvents

Components:

In accordance with Annex II of Regulation (EC) nº1907/2006 (point 3), the product contains:

	Identification		Chemical name/Classification		Concentration
CAS:	78-93-3	2-butanone		ATP CLP00	
EC: Index:			F: R11; Xi: R36; R66; R67	<u>*</u>	10 - <25 %
REACH	01-2119457290-43-XXXX	Regulation 1272/2008	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger	••	
	Non-applicable	Hydrocarbons, C6 - C7,	n - alkanes, isoalkanes, cyclics, <5% n - hexane	Self-classified	
Index:	921-024-6 Non-applicable	Directive 67/548/EC	F: R11; N: R51/53; Xi: R38; Xn: R65; R67	👌 🏪 🗙	2,5 - <10 %
REACH	01-2119475514-35-XXXX	Regulation 1272/2008	Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 2: H225; Skin Irrit. 2: H315; STOT SE 3: H336 - Danger	$\bigcirc \diamondsuit \diamondsuit \diamondsuit$	
CAS:	91-20-3	Naphthalene		ATP CLP00	
EC: Index:	202-049-5 601-052-00-2	Directive 67/548/EC	Carc. Cat 3: R40; N: R50/53; Xn: R22	¥_ ×	<1 %
REACH	01-032-00-2 01-2119561346-37-XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Carc. 2: H351 Warning	• • • •	

To obtain more information on the risk of the substances consult sections 8, 11, 12 and 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the MSDS of this product. By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply,etc.) requiring immediate medical assistance. By skin contact:

Date of compilation: 7/2/2014 Revised: 12/5/2014

Version: 3



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SECTION 4: FIRST AID MEASURES (continue)

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with luke warm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the MSDS of the product.

Do not induce vomiting, but if it does happen keep the head up to avoid inhalation. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

- 4.2 Most important symptoms and effects, both acute and delayed:Acute and delayed effects are indicated in sections 2 and 11.
- 4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

ECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

If possible use polyvalent powder fire exginguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO2). IT IS RECOMMENDED NOT to use tap water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflamation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inertizing agent. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.





SECTION 6: ACCIDENTAL RELEASE MEASURES (continue)

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

- 6.3 Methods and material for containment and cleaning up: It is recommended: Absorb the spillage using sand or inert absorbent and move it
 - Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.
- 6.4 Reference to other sections: See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling:
 - A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 94/9/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to used it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

- 7.2 Conditions for safe storage, including any incompatibilities:
 - A.- Technical measures for storage

Minimum Temp.:	5 ⁰C
Maximun Temp.:	30 °C
Maximum time:	12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment

Identification		Environmental lin	nits
2-butanone	IOELV (8h)	200 ppm	600 mg/m ³
CAS: 78-93-3	IOELV (STEL)	300 ppm	900 mg/m ³
EC: 201-159-0	Year	2014	•
Naphthalene	IOELV (8h)	10 ppm	50 mg/m ³
CAS: 91-20-3	IOELV (STEL)		
EC: 202-049-5	Year	2014	·





SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

		Shor	t exposure	Long	g exposure
Identification		Systemic	Local	Systemic	Local
2-butanone	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 78-93-3	Dermal	Non-applicable	Non-applicable	1161 mg/kg	Non-applicable
EC: 201-159-0	Inhalation	Non-applicable	Non-applicable	600 mg/m ³	Non-applicable
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: Non-applicable	Dermal	Non-applicable	Non-applicable	773 mg/kg	Non-applicable
EC: 921-024-6	Inhalation	Non-applicable	Non-applicable	2035 mg/m ³	Non-applicable
Naphthalene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 91-20-3	Dermal	Non-applicable	Non-applicable	3,57 mg/kg	Non-applicable
EC: 202-049-5	Inhalation	Non-applicable	Non-applicable	25 mg/m ³	25 mg/m ³
DNEL (Population):		Short	exposure	Long	exposure
Identification		Systemic	Local	Systemic	Local
2-butanone	Oral	Non-applicable	Non-applicable	31 mg/kg	Non-applicable
CAS: 78-93-3	Dermal	Non-applicable	Non-applicable	412 mg/kg	Non-applicable
EC: 201-159-0	Inhalation	Non-applicable	Non-applicable	106 mg/m ³	Non-applicable
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Oral	Non-applicable	Non-applicable	699 mg/kg	Non-applicable
CAS: Non-applicable	Dermal	Non-applicable	Non-applicable	699 mg/kg	Non-applicable
EC: 921-024-6	Inhalation	Non-applicable	Non-applicable	608 mg/m ³	Non-applicable
PNEC:			·		
Identification					
2-butanone	STP	709 ma/L	Fresh water	55	5.8 ma/L

2-butanone	STP	709 mg/L	Fresh water	55,8 mg/L
CAS: 78-93-3	Soil	22,5 mg/kg	Marine water	55,8 mg/L
EC: 201-159-0	Intermittent	55,8 mg/L	Sediment (Fresh water)	284,74 mg/kg
	Oral	1000 g/kg	Sediment (Marine water)	284,7 mg/kg
Naphthalene	STP	2,9 mg/L	Fresh water	0,0024 mg/L
CAS: 91-20-3	Soil	0,0533 mg/kg	Marine water	0,0024 mg/L
EC: 202-049-5	Intermittent	0,02 mg/L	Sediment (Fresh water)	0,0672 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0672 mg/kg

Exposure controls: 8.2

A.- General security and hygiene measures in the work place

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the professional exposure limits. In case of using indivudual protection equipment they should have the ""CE marking"" in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal. B.- Respiratory protection

Respiratory protect				
Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract protection	Filter mask for gases, vapours and particles		EN 149:2001+A1:2009 EN 405:2001+A1:2009	Replace when an increase in resistence to breathing is observed and/or a smell or taste of the contaminant is detected.
- Specific protection	for the hands			·
Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	NON-disposable chemical protective gloves		EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.
- Ocular and facial p	protection			
Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Face mask		EN 166:2001 EN 167:2001 EN 168:2001 EN 172:1994/A1:2000 EN 172:1994/A2:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to th manufacturer´s instructions. Use if there is a risk o splashing.
- Bodily protection				





SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties		EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2001 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistent properties		EN 13287:2008 EN ISO 20345:2011 EN 13832-1:2006 EN ISO 20344:2011	Replace boots at any sign of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
Emergency shower	ANSI Z358-1 ISO 3864-1:2002	Eyewash stations	DIN 12 899 ISO 3864-1:2002

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatil organic compounds:

With regard to Directive 1999/13/EC, this product has the following characteristics:

V.O.C. (Supply):

V.O.C. density at 20 °C: Non-applicable

Average carbon number:

Average molecular weight:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information	see the product datasheet.	
Appearance:		
Physical state at 20 °C:	Liquid	
Appearance:	Paste	
Color:	Not available	
Odor:	Not available	
Volatility:		
Boiling point at atmosphe	ric pressure:	84 °C
Vapour pressure at 20 °C	:	Non-applicable *
Vapour pressure at 50 °C	:	
Evaporation rate at 20 °C	:	Non-applicable *
Product description:		
Density at 20 °C:		Non-applicable *
Relative density at 20 °C:		1,2
Dynamic viscosity at 20 o	С:	Non-applicable *
Kinematic viscosity at 20	°C:	Non-applicable *
Kinematic viscosity at 40	°C:	
Concentration:		Non-applicable *
*Not relevant due to the natur	e of the product, not providing inf	formation property of its hazards.





	pH:	Non-applicable *
	Vapour density at 20 °C:	Non-applicable *
	Partition coefficient n-octanol/water 20 %	
	Solubility in water at 20 °C:	Non-applicable *
	Solubility property:	Non-applicable *
	Decomposition temperature:	Non-applicable *
	Melting point/freezing point:	Non-applicable *
	Flammability:	
	Flash Point:	-7 °C
	Autoignition temperature:	367 °C
	Lower flammability limit:	Not available
	Upper flammability limit:	Not available
9.2	Other information:	
	Surface tension at 20 °C: Non-	-applicable *
	Refraction index: Non-	-applicable *
	*Not relevant due to the nature of the product, no	ot providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

T

10.1	Reactivity:							
	No hazardous reactions are expected if the following technical instructions storage of chemicals. See section 7.							
0.2	Chemical stability:							
	Chemically stable under the	conditions of storage, ha	Indling and use.					
0.3	Possibility of hazardous react	ions:						
	Under the specified condition	ons, hazardous reactions t	hat lead to excessive tempe	eratures or pressure are not	expected.			
0.4	Conditions to avoid:							
	Applicable for handling and	storage at room tempera	ture:					
	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity			
	Shock and medon	contract men an						
	Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable			
0.5			Risk of combustion	Avoid direct impact	· · · · · · · · · · · · · · · · · · ·			
0.5	Not applicable		Risk of combustion	Avoid direct impact Combustible materials	· · · · · · · · · · · · · · · · · · ·			



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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

No experimental information is available on the product itself in relation to the toxicological properties. When performing the danger classification on corrosive or irritant effects the recommendations included in section 3.2.5 of Annex VI of Directive 67/548/EC, in paragraphs b) and c) of section 3 of article 6 of Directive 1999/45/EC and in section 3.2.3.3.5. of Annex I of CLP Regulation were taken into account.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A.- Ingestion:

Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.

B- Inhalation:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.

- C- Contact with the skin and the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous with carcinogenic effects. For more information see section 3.

E- Sensitizing effects:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensibilizing effects. For more information see section 3.

F- Specific target organ toxicity (STOT)-time exposure:

Exposure in high concentrations can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion and in serious cases, loss of concentration.

- G- Specific target organ toxicity (STOT)-repeated exposure: Repeated exposure may cause skin dryness or cracking
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	ŀ	Acute toxicity	
2-butanone	LD50 oral	4000 mg/kg	Rat
CAS: 78-93-3	LD50 dermal	6400 mg/kg	Rabbit
EC: 201-159-0	LC50 inhalation	23,5 mg/L (4 h)	Rat
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	LD50 oral	5840 mg/kg	Rat
CAS: Non-applicable	LD50 dermal	2920 mg/kg	Rat
EC: 921-024-6	LC50 inhalation	Non-applicable	
Naphthalene	LD50 oral	500 mg/kg	Rat
CAS: 91-20-3	LD50 dermal	Non-applicable	
EC: 202-049-5	LC50 inhalation	Non-applicable	

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the ecotoxicological properties of the product itself is not available

12.1 Tox

Identification		Acute toxicity	Specie	Genus
2-butanone	LC50	3220 mg/L (96 h)	Pimephales promelas	Fish
CAS: 78-93-3	EC50	5091 mg/L (48 h)	Daphnia magna	Crustacean
EC: 201-159-0	EC50	4300 mg/L (168 h)	Scenedesmus quadricauda	Alga
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	LC50	5,1 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: Non-applicable	EC50	Non-applicable		
EC: 921-024-6	EC50	Non-applicable		
Naphthalene	LC50	0,1 - 1 mg/L (96 h)		Fish
CAS: 91-20-3	EC50	0,1 - 1 mg/L		Crustacean
EC: 202-049-5	EC50	0,1 - 1 mg/L		Alga

12.2 Persistence and degradability:





SECTION 12: ECOLOGICAL INFORMATION (continue)

Identification	Degradability		Biodegradability	
2-butanone	BOD5	2.03 g O2/g	Concentration	Non-applicable
CAS: 78-93-3	COD	2.31 g O2/g	Period	20 days
EC: 201-159-0	BOD5/COD	0.88	% Biodegradable	89 %
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	BOD5	Non-applicable	Concentration	Non-applicable
CAS: Non-applicable	COD	Non-applicable	Period	28 days
EC: 921-024-6	BOD5/COD	Non-applicable	% Biodegradable	98 %
Naphthalene	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 91-20-3	COD	Non-applicable	Period	28 days
EC: 202-049-5	BOD5/COD	Non-applicable	% Biodegradable	2 %

12.3 Bioaccumulative potential:

	Identification	Bioad	cumulation potential
2-butanone		BCF	3
CAS: 78-93-3		Pow Log	0,29
EC: 201-159-0		Potential	Low
Naphthalene		BCF	168
CAS: 91-20-3		Pow Log	3,3
EC: 202-049-5		Potential	High

12.4 Mobility in soil:

Absor	ption/desorption	Vola	atility
Кос	30	Henry	5,765E+0 Pa·m³/mol
Conclusion	Very High	Dry soil	Yes
Surface tension	23960 N/m (25 °C)	Moist soil	Yes
Кос	817	Henry	4,458E+1 Pa·m³/mol
Conclusion	Moderate	Dry soil	Non-applicable
Surface tension	13060 N/m (277,74 °C)	Moist soil	Non-applicable
	Koc Conclusion Surface tension Koc Conclusion	Conclusion Very High Surface tension 23960 N/m (25 °C) Koc 817 Conclusion Moderate	Koc 30 Henry Conclusion Very High Dry soil Surface tension 23960 N/m (25 °C) Moist soil Koc 817 Henry Conclusion Moderate Dry soil

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	e	Description	Waste class (Directive 2008/98/EC)
08 04 (09* W	laste adhesives and sealants containing organic solvents or other dangerous substances	Dangerous

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2000/532/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) $n^{0}1907/2006$ (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2000/532/EC: Commission Decision of 3 May 2000



Safety data sheet According to 1907/2006/EC (REACH), 453/2010/EU, 2015/830/EU

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SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land: With regard to ADR 2013 and RID 2013:

-	14.1	UN number:	UN1133
	14.2	UN proper shipping name:	ADHESIVES containing flammable liquid
346	14.3	Transport hazard class(es):	3
$\langle \stackrel{\smile}{\rightarrow} \rangle$		Labels:	3
	14.4	Packing group:	II
3	14.5	Dangerous for the environment:	No
	14.6	Special precautions for user	
		Special regulations:	640D
		Tunnel restriction code:	D/E
		Physico-Chemical properties: Limited quantities:	see section 9 5 L
	14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Non-applicable
Turn and a following			
Transport of dang	-	•	
With regard to IN	4DG 36	5-12:	
	14.1	UN number:	UN1133
	14.2	UN proper shipping name:	ADHESIVES containing flammable liquid
يلو	14.3	Transport hazard class(es):	3
		Labels:	3
	14.4	Packing group:	II
3	14.5	Dangerous for the environment:	No
	14.6	Special precautions for user	
		Special regulations:	944
		EmS Codes:	F-E, S-D
		Physico-Chemical properties:	see section 9
		Limited quantities:	5 L
	14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Non-applicable
Transport of dang	erous g	joods by air:	
With regard to IA			
	14.1	UN number:	UN1133
	14.2	UN proper shipping name:	ADHESIVES containing flammable liquid
	14.3	Transport hazard class(es): Labels:	3 3
3	14.4	Packing group:	II
	14.5	Dangerous for the environment:	No
	14.6	Special precautions for user	
		Physico-Chemical properties:	see section 9
	14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Non-applicable
		מוום נווב ושב כטעצ.	

Version: 3



SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Active substances for which a decision of non-inclusion onto Annex I (Regulation (EU) No 528/2012): Naphthalene (excluded for the product type 19)

Regulation (EC) 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII, REACH):

Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following: — metallic glitter intended mainly for decoration,

— artificial snow and frost,

- "whoopee" cushions,
- whoopee cushions
- silly string aerosols,
- imitation excrement,

horns for parties,

decorative flakes and foams,

artificial cobwebs,

— stink bombs.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009, 2009 No. 716

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI 2009 No 1348 The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011, 2011 No. 1885 Control of Substances Hazardous to Health Regulations 2002 (as amended) EH40/2005 Workplace exposure limits

The Waste Regulations 2011, 2011 No. 988

15.2 Chemical safety assessment:

The provider has carried out a chemical safety assessment

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) Nº 1907/2006 (Regulation (EC) Nº 453/2010) Modifications related to the previous security card which concerns the ways of managing risks. : Directive 67/548/EC and Directive 1999/45/EC: · Pictograms · R Phrases · S Phrases CLP Regulation (EC) nº 1272/2008: Pictograms · Hazard statements Precautionary statements TRANSPORT INFORMATION: UN number Packing group Text of R - phrases considered in section 3: The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3 Directive 67/548/EC and Directive 1999/45/EC: R11: Highly flammable R22: Harmful if swallowed R36: Irritating to eyes R38: Irritating to skin R40: Limited evidence of a carcinogenic effect R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R65: Harmful: may cause lung damage if swallowed R66: Repeated exposure may cause skin dryness or cracking R67: Vapours may cause drowsiness and dizziness CLP Regulation (EC) nº 1272/2008:

Evochem



SECTION 16: OTHER INFORMATION (continue)



SEAL & FIX

Acute Tox. 4: H302 - Harmful if swallowed Aquatic Acute 1: H400 - Very toxic to aquatic life Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways Carc. 2: H351 - Suspected of causing cancer Eye Irrit. 2: H319 - Causes serious eye irritation Flam. Liq. 2: H225 - Highly flammable liquid and vapour Skin Irrit. 2: H315 - Causes skin irritation STOT SE 3: H336 - May cause drowsiness or dizziness Advice related to training: Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product. Principal bibliographical sources: http://esis.jrc.ec.europa.eu http://echa.europa.eu http://eur-lex.europa.eu Abbreviations and acronyms: - ADR: European agreement concerning the international carriage of dangerous goods by road -IMDG: International maritime dangerous goods code -IATA: International Air Transport Association -ICAO: International Civil Aviation Organisation -COD: Chemical Oxygen Demand -BOD5: 5-day biochemical oxygen demand -BCF: Bioconcentration factor -LD50: Lethal Dose 50 -CL50: Lethal Concentration 50 -EC50: Effective concentration 50 -Log-POW: Octanol-water partition coefficient -Koc: Partition coefficient of organic carbon

The information contained in this security data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this security data sheet only refers to this product, which should not be used for needs other than those specified.