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### Zettex Stonefix 500 and 750ml

### SECTION 2: HAZARDS IDENTIFICATION (continued)

### Additional Labelling (Annex XVII, REACH):

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

#### 2.3 Other hazards:

Non-applicable

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substance:

Non-applicable

### 3.2 Mixture:

Chemical description: Mixture composed of polyurethane in solvents

### Components:

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

	Identification	Chemical name/Classification				
	9016-87-9 Non-applicable 615-005-00-9 I Non-applicable	4,4'-methylenedipheny Regulation 1272/2008	/I diisocyanate, isomers and homologues Acute Tox. 4: H332; Carc. 2: H351; Eye Irrit. 2: H319; Resp. Sens. 1: H334; SI H315; Skin Sens. 1: H317; STOT RE 2: H373; STOT SE 3: H335 - Danger	ATP ATP01 kin Irrit. 2:	30 - <50 %	
	13674-84-5 237-158-7 Non-applicable 01-2119480419-30-	Tris(1-chloro-2-propyl) Regulation 1272/2008	Tris(1-chloro-2-propyl)         Phosphate         Self-classified           Regulation 1272/2008         Acute Tox. 4: H302 - Warning         (1)			
EC: ndex:	75-28-5 200-857-2 601-004-00-0 01-2119485395-27-	Isobutane Regulation 1272/2008	Flam. Gas 1: H220; Press. Gas: H280 - Danger	ATP CLP00	5 - <10 %	
EC: Index:	115-10-6 204-065-8 603-019-00-8 01-2119472128-37-	Dimethyl ether Regulation 1272/2008	Flam. Gas 1: H220; Press. Gas: H280 - Danger	ATP CLP00	5 - <10 %	
EC: ndex:	86675-46-9 Non-applicable Non-applicable Non-applicable	Polymer with 2-Butyne Methoxylated Regulation 1272/2008	1,4-Diol and (Chloromethyl-)Oxirane, Brominated, Dehydrochlorinat Acute Tox. 4: H302 - Warning	ed, Self-classified	2,5 - <5 %	
	74-98-6 200-827-9 601-003-00-5 01-2119486944-21-	Propane Regulation 1272/2008	•		1 - <2,5 %	
	106-97-8 203-448-7 601-004-00-0 01-2119474691-32-	Butane Regulation 1272/2008	Flam. Gas 1: H220; Press. Gas: H280 - Danger	ATP CLP00	0,1 - <1 %	
EC: ndex:	6425-39-4 229-194-7 Non-applicable 101-2119969278-20-	2,2´-dimorpholinyldietl Regulation 1272/2008	h <b>yl ether</b> Eye Irrit. 2: H319 - Warning	Self-classified	0,1 - <1 %	

### 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 SDS 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.

### Zettex Stonefix 500 and 750ml

### SECTION 4: FIRST AID MEASURES (continued)

### By skin contact:

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 lukewarm 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 SDS of the product.

### By ingestion/aspiration:

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administrate anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

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

### SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media:

If possible use polyvalent powder fire extinguishers (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 inflammation, 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. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

#### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

## 6.3 Methods and material for containment and cleaning up:

It is recommended:

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:

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	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								
	Product is non-flammable under norma to avoid the generation of electrostatic conditions and materials that should be	charges that can affe	ect flammable prod						
	C Technical recommendations to prevent	ergonomic and toxic	cological risks						
	Do not eat or drink during the process,	washing hands after	wards with suitable	e cleaning produc	ts.				
	D Technical recommendations to prevent	environmental risks							
	It is recommended to have absorbent r	naterial available at o	close proximity to the	he product (See s	subsection 6.3)				
7.2	Conditions for safe storage, including a	ny incompatibilities	:						
	A Technical measures for storage								
	Minimum Temp.: 5 °C								
	Maximum Temp.: 30 °C								
	B General conditions for storage								
	Avoid sources of heat, radiation, static	electricity and contac	t with food For ac	Iditional informati	on see subsectio	n 10 5			
7 2									
7.3	Specific end use(s):								
7.3									
	<b>Specific end use(s):</b> Field of application of the product is descril	bed in Technical data	a sheet (TDS).						
	Specific end use(s):	bed in Technical data	a sheet (TDS).						
SEC	Specific end use(s): Field of application of the product is descril	bed in Technical data	a sheet (TDS).						
SEC	Specific end use(s): Field of application of the product is describ TION 8: EXPOSURE CONTROLS/PE Control parameters:	eed in Technical data	a sheet (TDS). ECTION						
SEC	Specific end use(s): Field of application of the product is describ CTION 8: EXPOSURE CONTROLS/PE Control parameters: Substances whose occupational exposure	ERSONAL PROTE	a sheet (TDS). ECTION						
SEC	Specific end use(s): Field of application of the product is describ TION 8: EXPOSURE CONTROLS/PE Control parameters:	ERSONAL PROTE	a sheet (TDS). ECTION	environment	Environmental limi	ts			
SEC	Specific end use(s): Field of application of the product is described TION 8: EXPOSURE CONTROLS/PE Control parameters: Substances whose occupational exposure Identific Dimethyl ether CAS: 115-10-6	ERSONAL PROTE	a sheet (TDS). ECTION	environment IOELV (8h) IOELV (STEL)	Environmental limi				
SEC	Specific end use(s): Field of application of the product is described CTION 8: EXPOSURE CONTROLS/PE Control parameters: Substances whose occupational exposure Identific Dimethyl ether CAS: 115-10-6 EC: 204-065-8	ERSONAL PROTE	a sheet (TDS). ECTION	environment	Environmental limi	ts			
SEC	Specific end use(s): Field of application of the product is described TION 8: EXPOSURE CONTROLS/PE Control parameters: Substances whose occupational exposure Identific Dimethyl ether CAS: 115-10-6	ERSONAL PROTE	a sheet (TDS).	environment IOELV (8h) IOELV (STEL) Year	Environmental limit 1000 ppm 2015	ts 1920 mg/m³			
SEC	Specific end use(s): Field of application of the product is described CTION 8: EXPOSURE CONTROLS/PE Control parameters: Substances whose occupational exposure Identific Dimethyl ether CAS: 115-10-6 EC: 204-065-8 DNEL (Workers):	ERSONAL PROTE	a sheet (TDS).	environment IOELV (8h) IOELV (STEL) Year exposure	Environmental limi 1000 ppm 2015 Long	ts 1920 mg/m³ exposure			
EC	Specific end use(s): Field of application of the product is described CTION 8: EXPOSURE CONTROLS/PE Control parameters: Substances whose occupational exposure Identific Dimethyl ether CAS: 115-10-6 EC: 204-065-8 DNEL (Workers): Identification	ERSONAL PROTE	a sheet (TDS). ECTION nitored in the work Systemic	environment IOELV (8h) IOELV (STEL) Year exposure Local	Environmental limit 1000 ppm 2015 Long Systemic	ts 1920 mg/m³ exposure Local			
SEC	Specific end use(s): Field of application of the product is described CTION 8: EXPOSURE CONTROLS/PE Control parameters: Substances whose occupational exposure Identific Dimethyl ether CAS: 115-10-6 EC: 204-065-8 DNEL (Workers): Identification Dimethyl ether	eed in Technical data	a sheet (TDS). ECTION nitored in the work Systemic Non-applicable	environment IOELV (8h) IOELV (STEL) Year exposure Local Non-applicable	Environmental limit 1000 ppm 2015 Long Systemic Non-applicable	ts 1920 mg/m³ exposure Local Non-applicable			
EC	Specific end use(s): Field of application of the product is described CTION 8: EXPOSURE CONTROLS/PE Control parameters: Substances whose occupational exposure Identific Dimethyl ether CAS: 115-10-6 EC: 204-065-8 DNEL (Workers): Identification Dimethyl ether CAS: 115-10-6	eed in Technical data	a sheet (TDS). ECTION nitored in the work Systemic Non-applicable Non-applicable	environment IOELV (8h) IOELV (STEL) Year exposure Local Non-applicable Non-applicable	Environmental limi 1000 ppm 2015 Long Systemic Non-applicable Non-applicable	ts 1920 mg/m³ exposure Local Non-applicable Non-applicable			
SEC	Specific end use(s): Field of application of the product is described CTION 8: EXPOSURE CONTROLS/PE Control parameters: Substances whose occupational exposure Identific Dimethyl ether CAS: 115-10-6 EC: 204-065-8 Identification Dimethyl ether CAS: 115-10-6 EC: 204-065-8	eed in Technical data RSONAL PROTE limits have to be more ation Oral Dermal Inhalation	a sheet (TDS). ECTION nitored in the work Systemic Non-applicable Non-applicable Non-applicable	environment IOELV (8h) IOELV (STEL) Year exposure Local Non-applicable Non-applicable	Environmental limi 1000 ppm 2015 Long Systemic Non-applicable 1894 mg/m <sup>3</sup>	ts 1920 mg/m³ exposure Local Non-applicable Non-applicable			
	Specific end use(s): Field of application of the product is described CTION 8: EXPOSURE CONTROLS/PE Control parameters: Substances whose occupational exposure Identific Dimethyl ether CAS: 115-10-6 EC: 204-065-8 DNEL (Workers): Identification Dimethyl ether CAS: 115-10-6	eed in Technical data	a sheet (TDS). ECTION nitored in the work Systemic Non-applicable Non-applicable	environment IOELV (8h) IOELV (STEL) Year exposure Local Non-applicable Non-applicable	Environmental limi 1000 ppm 2015 Long Systemic Non-applicable Non-applicable	ts 1920 mg/m³ exposure Local Non-applicable Non-applicable			

## DNEL (General population):

Identification       Dimethyl ether     Oral       CAS: 115-10-6     Dermal		Shor	t exposure	Long exposure	
		Systemic	Local	Systemic	Local
Dimethyl ether	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 115-10-6	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 204-065-8	Inhalation	Non-applicable	Non-applicable	471 mg/m³	Non-applicable
2,2'-dimorpholinyldiethyl ether	Oral	Non-applicable	Non-applicable	0,5 mg/kg	Non-applicable
CAS: 6425-39-4	Dermal	Non-applicable	Non-applicable	0,5 mg/kg	Non-applicable
EC: 229-194-7	Inhalation	Non-applicable	Non-applicable	1,8 mg/m³	Non-applicable

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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
Tris(1-chloro-2-propyl) Phosphate	STP	Non-applicable	Fresh water	0,42 mg/L
CAS: 13674-84-5	Soil	1,33 mg/kg	Marine water	0,42 mg/L
EC: 237-158-7	Intermittent	Non-applicable	Sediment (Fresh water)	2,96 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	2,96 mg/kg
Dimethyl ether	STP	160 mg/L	Fresh water	0,155 mg/L
CAS: 115-10-6	Soil	0,045 mg/kg	Marine water	0,016 mg/L
EC: 204-065-8	Intermittent	1,549 mg/L	Sediment (Fresh water)	0,681 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,069 mg/kg
2,2'-dimorpholinyldiethyl ether	STP	100 mg/L	Fresh water	0,1 mg/L
CAS: 6425-39-4	Soil	1,58 mg/kg	Marine water	0,01 mg/L
EC: 229-194-7	Intermittent	1 mg/L	Sediment (Fresh water)	8,2 mg/kg
	Oral	10 g/kg	Sediment (Marine water)	0,82 mg/kg

#### 8.2 Exposure controls:

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 individual 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

	Pictogram	PPE	Labelling	CEN Standard	Remarks
Ν	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 contaminar is detected.
S	pecific protection	for the hands		I	
	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.
0	cular and facial p	protection		•	
Γ	Pictogram	PPE	Labelling	CEN Standard	Remarks
	Mandatory face protection	Face mask		EN 166:2001 EN 167:2001 EN 168:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to th manufacturer's instructions. Use if there is a risk of splashing.
- B	odily protection			·	
Γ	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 resistant properties		EN 13287:2008 EN ISO 20345:2011 EN 13832-1:2006	Replace boots at any sign of deterioration.

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F /	Additional emergency me	asures		
ſ	Emergency measure	Standards	Emergency measure	Standards
	Emergency shower	ANSI Z358-1 ISO 3864-1:2002	Eyewash stations	DIN 12 899 ISO 3864-1:2002
Env	ironmental exposure co	ontrols:	i	
of bo		ntainer. For additional information	of the environment it is recommende see subsection 7.1.D	ed to avoid environmental spillage
With	regard to Directive 2010	/75/EU, this product has the follow	ing characteristics:	
V.0	.C. (Supply):	16,13 % weight		
V.0	.C. density at 20 °C:	Non-applicable		
Ave	rage carbon number:	Non-applicable		
	rage molecular weight:	Non-applicable		
Ave				
Ave				

9.1	Information on basic physical and chemical pr	operties:
	For complete information see the product datashe	et.
	Appearance:	
	Physical state at 20 °C:	Aerosol
	Appearance:	Not available
	Color:	Not available
	Odor:	Not available
	Volatility:	
	Boiling point at atmospheric pressure:	342 °C (Propellant)
	Vapour pressure at 20 °C:	0 Pa
	Vapour pressure at 50 °C:	0 Pa (0 kPa)
	Evaporation rate at 20 °C:	Non-applicable *
	Product description:	
	Density at 20 °C:	Non-applicable *
	Relative density at 20 °C:	Non-applicable *
	Dynamic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 40 °C:	Non-applicable *
	Concentration:	Non-applicable *
	pH:	Non-applicable *
	Vapour density at 20 °C:	Non-applicable *
	Partition coefficient n-octanol/water 20 °C:	Non-applicable *
	Solubility in water at 20 °C:	Non-applicable *
	Solubility properties:	Non-applicable *
	Decomposition temperature:	Non-applicable *
	Melting point/freezing point:	Non-applicable *
	Recipient pressure:	Non-applicable *
	Flammability:	
	*Not relevant due to the nature of the product, not providing in	nformation property of its hazards.

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SEC	SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)		
	Flash Point:	Non Flammable (>60 °C)	
	Autoignition temperature:	240 °C (Propellant)	
	Lower flammability limit:	Non-applicable *	
	Upper flammability limit:	Non-applicable *	
9.2	Other information:		
	Surface tension at 20 °C:	Non-applicable *	
	Refraction index:	Non-applicable *	
	*Not relevant due to the nature of the product, not providing informati	on property of its hazards.	

### SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

### 10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

#### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

#### 10.5 Incompatible materials:

Acids	Water	Combustive materials	Combustible materials	Others
Not applicable	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

#### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

### SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

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

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

#### 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:
  - Acute toxicity: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
     Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation:

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

- Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

- C- Contact with the skin and the eyes:
  - Contact with the skin: Produces skin inflammation.
  - Contact with the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

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#### SECTION 11: TOXICOLOGICAL INFORMATION (continued) Carcinogenicity: Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2. Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. E- Sensitizing effects: - Respiratory: Prolonged exposure can result in specific respiratory hypersensitivity. Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis. F- Specific target organ toxicity (STOT)-time exposure: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages. G- Specific target organ toxicity (STOT)-repeated exposure: Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness. Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. H- Aspiration hazard: Based on available data, the classification criteria are not met, as it does not 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 Acute toxicity Genus LD50 oral Rat Tris(1-chloro-2-propyl) Phosphate 632 mg/kg CAS: 13674-84-5 LD50 derma 2000 mg/kg Rabbit EC: 237-158-7 LC50 inhalation 11 ma/L (4 h) Rat Polymer with 2-Butyne-1,4-Diol and (Chloromethyl-)Oxirane, Brominated, Dehydrochlorinated, Methoxylated LD50 oral ) 17 mg/kg Rat CAS: 86675-46-9 LD50 dermal Non-applicable EC: Non-applicable LC50 inhalation Non-applicable 4,4'-methylenediphenyl diisocyanate, isomers and homologues LD50 oral Non-applicable CAS: 9016-87-9 D50 dermal Non-applicable EC: Non-applicable LC50 inhalation 11 mg/L (4 h) (ATEi) LD50 oral Dimethyl ether Non-applicable LD50 dermal CAS: 115-10-6 Non-applicable EC: 204-065-8 LC50 inhalation 308,5 mg/L (4 h) Rat Butane LD50 oral Non-applicable CAS: 106-97-8 LD50 dermal Non-applicable EC: 203-448-7 LC50 inhalation 658 mg/L (4 h) Rat 2,2'-dimorpholinyldiethyl ether D50 oral 2025 mg/kg Rat CAS: 6425-39-4 LD50 dermal 3038 mg/kg Rabbit C50 inhalation EC: 229-194-7 Non-applicable

### SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Contains phosphates. Excessive discharge may cause eutrophication.

12.1 Toxicity:

Not available

### 12.2 Persistence and degradability:

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Identification	Degradability			Biodegradability		bility
Tris(1-chloro-2-propyl) Phosphate	BOD5	Non-applicable	Conc	entration		100 mg/L
CAS: 13674-84-5	COD	Non-applicable	Perio	d		28 days
EC: 237-158-7	BOD5/COD	Non-applicable	% Bio	odegradable		0 %
Bioaccumulative potential:						
Identi	fication			Bioa	ccumulatic	on potential
Tris(1-chloro-2-propyl) Phosphate			BC	F	5	
CAS: 13674-84-5			Po	w Log	2,59	
EC: 237-158-7			Po	tential	Low	
Isobutane			BC	F	27	
CAS: 75-28-5				w Log	2,76	
EC: 200-857-2			Po	tential	Low	
Propane			BC	F	13	
CAS: 74-98-6			Po	w Log	2,86	
EC: 200-827-9			Po	tential	Low	
Butane			BC	F	33	
CAS: 106-97-8			Po	w Log	2,89	
EC: 203-448-7			Po	tential	Mode	rate
2,2´-dimorpholinyldiethyl ether			BC	F	3	
CAS: 6425-39-4			Po	w Log		
EC: 229-194-7			Po	tential	Low	
Mobility in soil:						
Identification	Abso	orption/desorption			Vola	itility
Isobutane	Koc	35		Henry		1,206E+5 Pa·m³/m
CAS: 75-28-5	Conclusion	Very High		Dry soil		Yes
EC: 200-857-2	Surface tension	9,84E-3 N/m (25	°C)	Moist soil		Yes
Dimethyl ether	Кос	Non-applicable		Henry		Non-applicable
CAS: 115-10-6	Conclusion	Non-applicable		Dry soil		Non-applicable
EC: 204-065-8	Surface tension	1,136E-2 N/m (25	5 °C)	Moist soil		Non-applicable
Propane	Кос	460		Henry		7,164E+4 Pa·m³/m
CAS: 74-98-6	Conclusion	Moderate		Dry soil		Yes
EC: 200-827-9	Surface tension	7,02E-3 N/m (25	°C)	Moist soil		Yes
Butane	Кос	900		Henry		9,626E+4 Pa·m³/mo
CAS: 106-97-8	Conclusion	Low		Dry soil		Yes
EC: 203-448-7	Surface tension	1,187E-2 N/m (25	5 °C)	Moist soil		Yes
2,2'-dimorpholinyldiethyl ether	Кос	786		Henry		2E-9 Pa∙m³/mol
CAS: 6425-39-4	Conclusion	Low		Dry soil		No
EC: 229-194-7	Surface tension	Non-applicable		Moist soil		No
Results of PBT and vPvB assessment:						
Non-applicable						
Other adverse effects:						
Not described						

# 13.1 Waste treatment methods: Code Description Waste class (Regulation (EU) No 1357/2014) 16 05 04\* Gases in pressure containers (including halons) containing dangerous substances Dangerous

### Type of waste (Regulation (EU) No 1357/2014):

HP3 Flammable, HP4 Irritant — skin irritation and eye damage, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity, HP13 Sensitising, HP7 Carcinogenic

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### SECTION 13: DISPOSAL CONSIDERATIONS (continued)

### 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 (2014/955/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) nº1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

## SECTION 14: TRANSPORT INFORMATION

•	U	s goods by land:	
With regard to A	DR 201	5 and RID 2015:	
	14.1	UN number:	UN1950
		UN proper shipping name:	AEROSOLS, flammable
	14.3	Transport hazard class(es):	2
		Labels:	2.1
		Packing group:	N/A
2	14.5	Dangerous for the environment:	No
	14.6	Special precautions for user	
		Special regulations:	190, 327, 344, 625
		Tunnel restriction code:	D
		Physico-Chemical properties:	see section 9
		Limited quantities:	1 L
	14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable
Transport of da	ngerou	s goods by sea:	
With regard to IN	/IDG 37-	-14:	
	14.1	UN number:	UN1950
	14.2	UN proper shipping name:	AEROSOLS, flammable
	14.3	Transport hazard class(es):	2
		Labels:	2.1
		Packing group:	N/A
2	14.5	Dangerous for the environment:	No
•	14.6	Special precautions for user	
		Special regulations:	190, 277, 327, 344, 63, 959
		EmS Codes:	F-D, S-U
		Physico-Chemical properties:	see section 9
		Limited quantities:	1 L
	14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable
		s goods by air:	
Transport of da	ngerou	is youus by all.	

### Zettex Stonefix 500 and 750ml

ECTION 14: TRAN	ISPOR	T INFORMATION (continued)	
	14.1	UN number:	UN1950
	14.2	UN proper shipping name:	AEROSOLS, flammable
	14.3	Transport hazard class(es):	2
		Labels:	2.1
2	14.4	Packing group:	N/A
•	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 and the IBC Code:	Non-applicable

## 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

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

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

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 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):

Contains more than 0,1 % of 4,4'-methylenediphenyl diisocyanate, isomers and homologues by weight. This product may not be distributed in its present form for first-time sale to the general public after 27th December 2010 unless the packaging contains protective gloves meeting the provisions of European Council Directive 89/686/CEE.

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 product could be affected by sectorial legislation

Council Directive 75/324/EEC of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers Commission Directive 94/1/EC of 6 January 1994 adapting some technicalities of Council Directive 75/324/EEC on the approximation of the laws of the relating Member States to aerosol dispensers

Commission Directive 2008/47/EC of 8 April 2008 amending, for the purposes of adapting to technical progress, Council Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers

Commission Directive 2013/10/EU of 19 March 2013 amending Council Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers in order to adapt its labelling provisions to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

#### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

### 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) N° 1907/2006 (Regulation (EU) N° 453/2010, Regulation (EC) N° 2015/830)

Modifications related to the previous security card which concerns the ways of managing risks. :

## Zettex Stonefix 500 and 750ml

ECTION	16: OTHER INFORMATION (continued)
COM	POSITION/INFORMATION ON INGREDIENTS:
	ded Content
	Tris(1-chloro-2-propyl) Phosphate (13674-84-5)
	Isobutane (75-28-5) Relimer with 2 Ruture 1.4 Dial and (Chloromathul ) Ovirano, Braminated, Debudrachlarinated, Mathewulated (86675-46-0)
	Polymer with 2-Butyne-1,4-Diol and (Chloromethyl-)Oxirane, Brominated, Dehydrochlorinated, Methoxylated (86675-46-9) Propane (74-98-6)
	Butane (106-97-8)
	2,2'-dimorpholinyldiethyl ether (6425-39-4)
· Re	moved Content
	Halogenated polyetherpolyol (86675-46-9)
	Phosphoric trichloride, reaction products with propylene oxide
	SPORT INFORMATION: I number
	cking group
	of the legislative phrases mentioned in section 2:
	Extremely flammable aerosol Causes skin irritation
	Causes serious eye irritation
	May cause allergy or asthma symptoms or breathing difficulties if inhaled
	May cause an allergic skin reaction
	Suspected of causing cancer
	May cause respiratory irritation
	May cause damage to organs through prolonged or repeated exposure
	+H332: Harmful if swallowed or if inhaled Pressurised container: May burst if heated
	of the legislative phrases mentioned in section 3: hrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual
	ponents which appear in section 3
CLP I	Regulation (EC) nº 1272/2008:
Acute	Tox. 4: H302 - Harmful if swallowed
	Tox. 4: H332 - Harmful if inhaled
	2: H351 - Suspected of causing cancer
	rit. 2: H319 - Causes serious eye irritation Gas 1: H220 - Extremely flammable gas
	. Gas: H280 - Contains gas under pressure, may explode if heated
	Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
	rrit. 2: H315 - Causes skin irritation
	Sens. 1: H317 - May cause an allergic skin reaction
	RE 2: H373 - May cause damage to organs through prolonged or repeated exposure
SIO	SE 3: H335 - May cause respiratory irritation
	ification procedure:
	ol 1: Calculation method
	rrit. 2: Calculation method
	rit. 2: Calculation method Sens. 1: Calculation method
•	Sens. 1: Calculation method
	2: Calculation method
	SE 3: Calculation method
	RE 2: Calculation method
	Tox. 4: Calculation method
	ol 1: Calculation method
	e related to training:
	al training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and retation of this safety data sheet, as well as the label on the product.
	ipal bibliographical sources:
	esis.jrc.ec.europa.eu
	echa.europa.eu eur-lex.europa.eu
•	
Abbre	eviations and acronyms:

### Zettex Stonefix 500 and 750ml

### SECTION 16: OTHER INFORMATION (continued)

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 safety 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 safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -