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# **MEGAFOAM LOW EXPANSION**

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

1.1 Product identifier: MEGAFOAM LOW EXPANSION

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

Relevant uses: Adhesive for construction. For professional use only.

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

13 Details of the supplier of the safety data sheet:

EVOCHEM S.A. Tzaverdella Place 133 41 PHILI, ATTICA - GREECE Phone.: 0030 210 5590460 , 0030 210 5590155 -Fax: 0030 210 6254737, 0030 210 5590244 info@evochem.gr; vmergoupis@evochem.gr; sales@evochem.gr www.evochem.gr

#### 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) nº1907/2006 (REACH regulation).

Carc. Cat 3: R40 - Limited evidence of a carcinogenic effect

F+: R12 - Extremely flammable

Xi: R36/37/38 - Irritating to eyes, respiratory system and skin

Xn: R20/22 - Harmful by inhalation and if swallowed, R42/43 - May cause sensitisation by inhalation and skin contact, R48/20 -Harmful: danger of serious damage to health by prolonged exposure through inhalation

# CLP Regulation (EC) nº 1272/2008:

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

Acute Tox. 4: Acute toxicity, Category 4 Carc. 2: Carcinogenicity, Category 2 Eye Irrit. 2: Eye irritation, Category 2 Flam. Aerosol 1: Flammable aerosols, Category 1 Resp. Sens. 1: Sensitisation, respiratory, Category 1 Skin Irrit. 2: Dermal irritation, Category 2 Skin Sens. 1: Sensitisation, dermal, Category 1 STOT RE 2: Specific target organ toxicity, repeated exposure, Category 2 STOT SE 3: Respiratory tract toxicity, 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:





Extremely flammable

# **R** Phrases:

R12: Extremely flammable R20/22: Harmful by inhalation and if swallowed R36/37/38: Irritating to eyes, respiratory system and skin R40: Limited evidence of a carcinogenic effect R42/43: May cause sensitisation by inhalation and skin contact R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation S Phrases:



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# SECTION 2: HAZARDS IDENTIFICATION (continue)

- S16: Keep away from sources of ignition No smoking
- S23: Do not breathe vapour and spray
- S24: Avoid contact with skin
- S36/37: Wear suitable protective clothing and gloves
- S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
- S51: Use only in well-ventilated areas

S9: Keep container in a well-ventilated place

#### Supplementary information:

P91: Contains isocyanates-Read the information provided by the manufacturer

P96: 94/1/EC–Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use

P97: 2008/47/EC–Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children

#### Substances that contribute to the classification:

4,4 '-methylenediphenyl diisocyanate, isomers and homologues

#### CLP Regulation (EC) nº 1272/2008:

Danger



# Hazard indications:

Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled Carc. 2: H351 - Suspected of causing cancer Eye Irrit. 2: H319 - Causes serious eye irritation Flam. Aerosol 1: H222 - Extremely flammable aerosol Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled Skin Irrit. 2: H315 - Causes skin irritation Skin Sens. 1: H317 - May cause an allergic skin reaction STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure STOT SE 3: H335 - May cause respiratory irritation

#### **Cautionary advice:**

P271: Use only outdoors or in a well-ventilated area
P302+P352: IF ON SKIN: Wash with plenty of soap and water
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position 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
P312: Call a POISON CENTER or doctor/physician if you feel unwell
P362: Take off contaminated clothing and wash before reuse

#### Supplementary information:

2.2: 94/1/EC–Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use

2.3: 2008/47/EC–Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children

EUH204: Contains isocyanates. May produce an allergic reaction

EUH208: Contains 4,4 - methylenediphenyl diisocyanate, isomers and homologues. May produce an allergic reaction

# 2.3 Other hazards:

Non-applicable

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical description: Polyurethane resin

#### Components:

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





# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continue)

	Identification		Chemical name/Classification		Concentration
CAS: c	9016-87-9	4,4´-methylenedipher	nyl diisocyanate, isomers and homologues	ATP ATP01	
EC: Index:	Non-applicable	Directive 67/548/EC	Carc. Cat 3: R40; Xi: R36/37/38; Xn: R20, R42/43, R48/20	×	25 - <50 %
REACH: Non-applicable		Regulation 1272/2008	Acute Tox. 4: H332; Carc. 2: H351; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Iı H315; Skin Sens. 1: H317; STOT RE 2: H373; STOT SE 3: H335 - Danger	rrit. 2: 🛛 🕕 🕹	
CAS: 13674-84-5		Tris(1-chloro-2-propy	l) Phosphate	Self-classified	
EC: 237-158-7 Index: Non applicable	Non applicable		Xn: R22	×	10 - <25 %
REACH: 01-2119480419-30-XXXX		Regulation 1272/2008	Acute Tox. 4: H302+H312+H332 - Warning	٩	
CAS:	115-10-6	Dimethyl ether		ATP CLP00	
EC: Index:	204-065-8 603-019-00-8	Directive 67/548/EC	F+: R12	*	2,5 - <10 %
REACH: 01-2119472128-37-XXXX		Regulation 1272/2008	Flam. Gas 1: H220; Press. Gas: H280 - Danger		
CAS: 68512-91-4		Petroleum gas, < 0,1	% no EINECS 203-450-8	ATP ATP01	
	270-990-9 649-083-00-0	Directive 67/548/EC	F+: R12	3	2,5 - <10 %
REACH	01-2119485926-20-XXXX	Regulation 1272/2008	Flam. Gas 1: H220; Press. Gas: H280 - Danger	A	1

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:

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.

# By consumption:

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

# SECTION 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:

Contains substances that may result in explosion caused by heat. In case of fire follow the instructions on the Internal Emergency Plan.

# 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.





# SECTION 5: FIREFIGHTING MEASURES (continue)

# 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.

#### 6.2 Environmental precautions:

This product is not classified as dangerous 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:

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

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

#### 7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.:	5 °C
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	Er	vironmental limits	
Dimethyl ether	IOELV (8h)	1000 ppm	1920 mg/m <sup>3</sup>
CAS: 115-10-6	IOELV (STEL)		
EC: 204-065-8	Year	2012	

# **DNEL (Workers):**

		Short	Short exposure		Long exposure	
Identification		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	1894 mg/m <sup>3</sup>	Non-applicable	
Petroleum gas, < 0,1 % no EINECS 203-450-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
CAS: 68512-91-4	Dermal	Non-applicable	Non-applicable	23,4 mg/kg	Non-applicable	
EC: 270-990-9	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable	

# DNEL (Population):

		Short exposure		Long exposure	
Identification		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

# PNEC:

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

# 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 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

LRP 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.

# C.- Specific protection for the hands

LRP F	Pictogram	PPE	Labelling	CEN Standard	Remarks
	atory hand dection	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.



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# **MEGAFOAM LOW EXPANSION**

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

D.- Ocular and facial protection

LRP 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 165:2005	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.
Bodily protection				
LRP 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 340:2003 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
Mandatory foot	Safety footwear for protection against chemical risk, with antistatic and heat resistent properties		EN 13287:2007 EN ISO 20345:2011 EN 13832-1:2006 EN ISO 20344:2011	Replace boots at any sign of deterioration.

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):	15,95 % weight
V.O.C. density at 20 °C:	Non-applicable
Average carbon number:	Non-applicable
Average molecular weight:	Non-applicable

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

# Appearance:

Aerosol	
Not available	
Not available	
Not available	
ric pressure:	-42 °C (Propellant)
:	Non-applicable *
:	
:	Non-applicable *
e of the product, not	providing information property of its hazards.
	Not available Not available Not available ric pressure: :



SECT	TON 9: PHYSICAL AND CHEMICAL	PROPERTIES (continue)
	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 property:	Non-applicable *
	Decomposition temperature:	Non-applicable *
	Recipient pressure:	Non-applicable *
	Flammability:	
	Flash Point:	-104 °C (Propellant)
	Autoignition temperature:	410 °C (Propellant)
	Lower flammability limit:	Non-applicable *
	Upper flammability limit:	Non-applicable *
9.2	Other information:	
	Surface tension at 20 °C: N	n-applicable *
	Refraction index: N	n-applicable *
	*Not relevant due to the nature of the product,	not providing information property of its hazards.

# SECTION 10: STABILITY AND REACTIVITY

# 10.1 Reactivity:

No hazardous reactions are expected if the following technical instructions storage of chemicals. 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 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:					
	Acido	Wator	Combuctivo matoriale	Combuctible materials	Othors

Not applicable Not applicable Avoid direct impact Avoid direct impact Not applicable		Acids	Water	Combustive materials	Combustible materials	Others
	1	Not applicable	Not applicable	Avoid direct impact	Avoid direct impact	Not applicable

# 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:

Version: 4

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# SECTION 11: TOXICOLOGICAL INFORMATION (continue)

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.

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:

The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation:

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.

C- Contact with the skin and the eyes:

Produces skin inflammation.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2.

E- Sensitizing effects:

Prolonged contact with the skin can result in specific respiratory hypersensitivity.

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

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.

G- Specific target organ toxicity (STOT)-repeated 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.

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
Tris(1-chloro-2-propyl) Phosphate	LD50 oral	632 mg/kg	Rat
CAS: 13674-84-5	LD50 dermal	2000 mg/kg	Rabbit
EC: 237-158-7	LC50 inhalation	11 mg/L (4 h)	Rat
4,4 '-methylenediphenyl diisocyanate, isomers and homologues	LD50 oral	Non-applicable	
CAS: 9016-87-9	LD50 dermal	Non-applicable	
EC: Non-applicable	LC50 inhalation	11 mg/L (4 h) (ATEi)	
Dimethyl ether	LD50 oral	Non-applicable	
CAS: 115-10-6	LD50 dermal	Non-applicable	
EC: 204-065-8	LC50 inhalation	308,5 mg/L (4 h)	Rat

# SECTION 12: ECOLOGICAL INFORMATION

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

Contains phosphates. Excessive discharge may cause eutrophication.

12.1 Toxicity:

Identification		Acute toxicity	Specie	Genus
Tris(1-chloro-2-propyl) Phosphate	LC50	56,2 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 13674-84-5	EC50	131 mg/L (48 h)	Daphnia magna	Crustacean
EC: 237-158-7	EC50	45 mg/L (72 h)	Scenedesmus subspicatus	Alga





# SECTION 12: ECOLOGICAL INFORMATION (continue)

# 12.2 Persistence and degradability:

Identification	De	Degradability		Biodegradability	
Tris(1-chloro-2-propyl) Phosphate	BOD5	Non-applicable	Concentration	100 mg/L	
CAS: 13674-84-5	Code	Non-applicable	Period	28 days	
EC: 237-158-7	BOD5/COD	Non-applicable	% Biodegradable	0 %	

#### 12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential	
Tris(1-chloro-2-propyl) Phosphate	BCF	5
CAS: 13674-84-5	Pow Log	2,59
EC: 237-158-7	Potential	Low

#### **12.4 Mobility in soil:**

Identification	Identification Absor		Volatility	
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	11360 N/m (25 °C)	Moist soil	Non-applicable
Petroleum gas, < 0,1 % no EINECS 203-450-8	Кос	Non-applicable	Henry	Non-applicable
CAS: 68512-91-4	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 270-990-9	Surface tension	11870 N/m (25 °C)	Moist soil	Non-applicable

# 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	Description	Waste class (Directive 2008/98/EC)	
16 05 04*	Gases in pressure containers (including halons) containing 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

# SECTION 14: TRANSPORT INFORMATION

# Transport of dangerous goods by land:

With regard to ADR 2013 and RID 2013:





SECTION 14: TRANSP	ORT I	NFORMATION (continue)	
	14.1	UN number:	UN1950
		UN proper shipping name:	AEROSOLS, flammable
			2
	1110	Labels:	2.1
	14.4		N/A
2		Dangerous for the	No
•	_	environment:	
	14.6	Special precautions for user	
		Special regulations:	190, 327, 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 73/78 and the IBC Code:	Non-applicable
Transport of da	ngero	us goods by sea:	
With regard to IM	-	• •	
	14.1	UN number:	UN1950
			AEROSOLS, flammable
		Transport hazard class(es):	2
			2.1
	14.4	Packing group:	N/A
		Dangerous for the	No
		environment:	
	14.6	Special precautions for user	
		Special regulations:	
		EmS Codes:	F-D, S-U
		Physico-Chemical properties:	see section 9
		Limited quantities:	1L
	14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Non-applicable
Transport of da	naeroi		
With regard to IA	-	• •	
	14.1	UN number:	UN1950
	14.2	UN proper shipping name:	AEROSOLS, flammable
		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	
		, , ,	see section 9
	14.7	Transport in bulk according to Annex II of MARPOL 73/78	Non-applicable
		and the IBC Code:	

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





# SECTION 15: REGULATORY INFORMATION (continue)

#### 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,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

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:

Non-applicable

- 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

#### 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. :

CLP Regulation (EC) nº 1272/2008:

· Hazard indications

#### Text of R-phrases considered in section 3:

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

R12: Extremely flammable R20: Harmful by inhalation R22: Harmful if swallowed R36/37/38: Irritating to eyes, respiratory system and skin R40: Limited evidence of a carcinogenic effect R42/43: May cause sensitisation by inhalation and skin contact R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation **CLP Regulation (EC) nº 1272/2008:** Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled

Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled Acute Tox. 4: H332 - Harmful if inhaled Carc. 2: H351 - Suspected of causing cancer Eye Irrit. 2: H319 - Causes serious eye irritation Flam. Gas 1: H220 - Extremely flammable gas Press. Gas: H280 - Contains gas under pressure, may explode if heated Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled Skin Irrit. 2: H315 - Causes skin irritation Skin Sens. 1: H317 - May cause an allergie skin reaction STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure STOT SE 3: H335 - May cause respiratory irritation





# SECTION 16: OTHER INFORMATION (continue)

# 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.

- END OF SAFETY DATA SHEET -