

CONSTRUCTION FOAM B3

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

1.1. Product identifier

Construction Foam B3

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

Relevant uses: Foam

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

Fixfast Ltd

Merlin House

Seven Mile Lane

Borough Green

Sevenoaks

Kent

TN15 8QY

1.4. Emergency telephone number

Emergency telephone number +44 (0)845 450 7433 (Monday - Friday, normal office hours only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture:

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, H302+H332

Aerosol 1: Flammable aerosols, Category 1, H222

Aerosol 1: Pressurised container: May burst if heated., H229

Aquatic Chronic 4: Hazardous to the aquatic environment, long-term hazard, Category 4, H413

Carc. 2: Carcinogenicity, Category 2, H351 Eye Irrit. 2: Eye irritation, Category 2, H319

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Lact.: Reproductive toxicity, effects on or via lactation, H362 Resp. Sens. 1: Sensitisation, respiratory, Category 1, H334

Skin Irrit. 2: Skin irritation, Category 2, H315

Skin Sens. 1: Sensitisation, skin, Category 1, H317

STOT RE 2: Specific target organ toxicity, repeated exposure, Category 2, H373

STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

2.2. Label elements

CLP Regulation (EC) nº 1272/2008: Danger







Hazard statements:

Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled

Aerosol 1: H222 - Extremely flammable aerosol

Aerosol 1: H229 - Pressurised container: May burst if heated

Aquatic Chronic 4: H413 - May cause long lasting harmful effects to aquatic life

Carc. 2: H351 - Suspected of causing cancer Eye Irrit. 2: H319 - Causes serious eye irritation

Lact.: H362 - May cause harm to breast-fed children

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

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

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P211: Do not spray on an open flame or other ignition source

P251: Do not pierce or burn, even after use

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

P302+P352: IF ON SKIN: Wash with plenty of water

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

P410+P412: Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122°F

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

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Supplementary information:

EUH066: Repeated exposure may cause skin dryness or cracking EUH204: Contains isocyanates. May produce an allergic reaction

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. Substances

Not applicable

3.2. Mixture:

Chemical description: Mixture composed of polyurethane in solvents

Components:

In accordance with Annex II of Regulation (EC) n°1907/2006 (point 3), the product contains:

	Identification		Chemical name/Classification		Concentration
CAS: 9016-87-9 EC: Non-applicable		4,4'-methyler	nediphenyl diisocyanate, isomers and homologues	ATP ATP01	
	ex: 615-005-00-9 Regulation Acute Tox. 4: H332; Carc. 2: H351; Eye Irrit. 2: H319; Resp.		Acute Tox. 4: H332; Carc. 2: H351; Eye Irrit. 2: H319; Resp. Sens. 1: H334; S H315; Skin Sens. 1: H317; STOT RE 2: H373; STOT SE 3: H335 - Danger	kin Irrit. 2: 🕦 🕸	30 - <50 %
CAS: EC:	75-28-5 200-857-2	Isobutane		ATP CLP00	
Index:	601-004-00-0 01-2119485395-27-XXX	Regulation 1272/2008	Flam. Gas 1: H220; Press. Gas: H280 - Danger	⊗	10 - <20 %
CAS: EC:	85535-85-9 287-477-0	Alkanes, C14	-17, chloro	ATP ATP01	
Index:	ndex: 602-095-00-X Regulation	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Lact.: H362 - Warning	②	10 - <20 %	
CAS: EC:	115-10-6 204-065-8	Dimethyl ethe	er	ATP CLP00	
Index:	Index: 603-019-00-8 Regulation	Regulation 1272/2008	Flam. Gas 1: H220; Press. Gas: H280 - Danger	®	2,5 - <5 %
CAS: EC:	Non-applicable 911-815-4	Phosphoric to	richloride, reaction products with propylene oxide	Self-classified	
Index:	Non-applicable 01-2119486772-26-XXX	Regulation 1272/2008	Acute Tox. 4: H302 - Warning	(2,5 - <5 %
CAS: EC:	74-98-6 200-827-9	Propane		ATP CLP00	
Index:		Regulation 1272/2008	Flam. Gas 1: H220; Press. Gas: H280 - Danger	⋄	1 - <2,5 %
CAS: EC:	106-97-8 203-448-7	Butane		ATP CLP00	1 05%
	601-004-00-0 01-2119474691-32-XXX	Regulation 1272/2008	Flam. Gas 1: H220; Press. Gas: H280 - Danger	◆	1 - <2,5 %

To obtain more information on the risk of the substances consult sections 8, 11, 12, 15 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 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.

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

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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

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 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

 Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on 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 use 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 °C

Maximum Temp.: 30 °C

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)

Field of application of the product is described in Technical data sheet (TDS).

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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 limits				
Dimethyl ether CAS: 115-10-6	IOELV (8h)	1000 ppm	1920 mg/m³		
	IOELV (STEL)				
EC: 204-065-8	Year	2015			

DNEL (Workers):

		Short e	exposure	Long exposure	
Identification		Systemic	Local	Systemic	Local
Alkanes, C14-17, chloro	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 85535-85-9	Dermal	Non-applicable	Non-applicable	47,9 mg/kg	Non-applicable
EC: 287-477-0	Inhalation	Non-applicable	Non-applicable	6,7 mg/m ³	Non-applicable
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/m³	Non-applicable
Phosphoric trichloride, reaction products	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
with propylene oxide CAS: Non-applicable	Dermal	8 mg/kg	Non-applicable	2,08 mg/kg	Non-applicable
EC: 911-815-4	Inhalation	22,4 mg/m ³	Non-applicable	5,82 mg/m³	Non-applicable
2,2'-dimorpholinyldiethyl ether	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 6425-39-4	Dermal	Non-applicable	Non-applicable	1 mg/kg	Non-applicable
EC: 229-194-7	Inhalation	Non-applicable	Non-applicable	7,28 mg/m³	Non-applicable

DNEL (General population):

		Short e	exposure	Long exposure	
Identification		Systemic	Local	Systemic	Local
Alkanes, C14-17, chloro	Oral	Non-applicable	Non-applicable	0,58 mg/kg	Non-applicable
CAS: 85535-85-9	Dermal	Non-applicable	Non-applicable	28,75 mg/kg	Non-applicable
EC: 287-477-0	Inhalation	Non-applicable	Non-applicable	2 mg/m³	Non-applicable
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

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Phosphoric trichloride, reaction products	Oral	Non-applicable	Non-applicable	0,52 mg/kg	Non-applicable
with propylene oxide CAS: Non-applicable EC: 911-815-4	Dermal	4 mg/kg	Non-applicable	1,04 mg/kg	Non-applicable
	Inhalation	11,2 mg/m³	Non-applicable	1,46 mg/m ³	Non-applicable
2.2′-dimorpholipyldiethyl ether					
2.2´-dimorpholinyldiethyl ether	Oral	Non-applicable	Non-applicable	0,5 mg/kg	Non-applicable
2,2'-dimorpholinyldiethyl ether CAS: 6425-39-4 EC: 229-194-7	Oral Dermal	Non-applicable Non-applicable	Non-applicable Non-applicable	0,5 mg/kg 0,5 mg/kg	Non-applicable Non-applicable

PNEC:

Identification				
	STP	80 mg/L	Fresh water	0,001 mg/L
Alkanes, C14-17, chloro	Soil	11,9 mg/kg	Marine water	0,0002 mg/L
CAS: 85535-85-9 EC: 287-477-0	Intermittent	Non-applicable	Sediment (Fresh water)	13 mg/kg
	Oral	10 g/kg	Sediment (Marine water)	2,6 mg/kg
	STP	160 mg/L	Fresh water	0,155 mg/L
Dimethyl ether 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
Dhaanharia trialalarida yaastian	STP	7,84 mg/L	Fresh water	0,64 mg/L
Phosphoric trichloride, reaction products with propylene oxide	Soil	1,7 mg/kg	Marine water	0,064 mg/L
CAS: Non-applicable EC: 911-815-4	Intermittent	0,51 mg/L	Sediment (Fresh water)	13,4 mg/kg
LO. 911-013-4	Oral	11,6 g/kg	Sediment (Marine water)	1,34 mg/kg
	STP	100 mg/L	Fresh water	0,1 mg/L
2,2´-dimorpholinyldiethyl ether 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.

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B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract protection	Filter mask for gases, vapours and particles	CATIII	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

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	NON- disposable chemical protective gloves	CATIII	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.

D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	Face mask	CATII	EN 166:2001 EN 167:2001 EN 168:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Bodily protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties	CATIII	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	CATIII	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 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

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply): 19,53 % 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.

*Not relevant due to the nature of the product, not providing information property of its hazards.

Appearance:

Physical state at 20 °C: Aerosol

Appearance:

Color:

Not available

Not available

Not available

Volatility:

Boiling point at atmospheric pressure: -12 °C (Propellant)

Vapour pressure at 20 °C:

Vapour pressure at 50 °C:

Non-applicable *

Non-applicable *

Product description:

Density at 20 °C:

Relative density at 20 °C:

Non-applicable *

Non-applicable *

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Dynamic viscosity at 20 °C: Non-applicable * Kinematic viscosity at 20 °C: Non-applicable * Kinematic viscosity at 40 °C: Non-applicable * Concentration: Non-applicable * :Ha 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 *

Flammability:

Recipient pressure:

Flash Point:

Autoignition temperature:

Lower flammability limit:

Upper flammability limit:

-83 °C (Propellant)

460 °C (Propellant)

Non-applicable *

Non-applicable *

9.2. Other information

Surface tension at 20 °C:

Refraction index:

Non-applicable *

Non-applicable *

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.

Non-applicable *

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

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^{*}Not relevant due to the nature of the product, not providing information property of its hazards.

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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 on 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 consciousnesss 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.

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- 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):
- 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: May cause harm to breast-fed children
- 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) single 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 consciousnesss can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
 - Skin: Repeated exposure may cause skin dryness or cracking
 - 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:

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Identification	Acu	Acute toxicity	
Phosphoric trichloride, reaction products with propylene oxide	LD50 oral	632 mg/kg	Rat
CAS: Non-applicable	LD50 dermal	Non-applicable	
EC: 911-815-4	LC50 inhalation	Non-applicable	
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)	
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
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
2,2'-dimorpholinyldiethyl ether	LD50 oral	2025 mg/kg	Rat
CAS: 6425-39-4	LD50 dermal	3038 mg/kg	Rabbit
EC: 229-194-7	LC50 inhalation	Non-applicable	

SECTION 12: Ecological information

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

12.1. Toxicity

Identification	Acute toxicity		Specie	Genus
Alkanes, C14-17, chloro	LC50	0,1 - 1 mg/L (96 h)		Fish
CAS: 85535-85-9	EC50	0,1 - 1 mg/L		Crustacean
EC: 287-477-0	EC50	0,1 - 1 mg/L		Algae

12.2. Persistence and degradability

Not available

12.3. Bioaccumulative potential

Identification	Bioaccumulation potential	
Isobutane	BCF	27
CAS: 75-28-5	Pow Log	2,76
EC: 200-857-2	Potential	Low
Propane	BCF	13
CAS: 74-98-6	Pow Log	2,86
EC: 200-827-9	Potential	Low



Butane CAS: 106-97-8	BCF	33
	Pow Log	2,89
EC: 203-448-7	Potential	Moderate
2,2´-dimorpholinyldiethyl ether	BCF	3
CAS: 6425-39-4	Pow Log	
EC: 229-194-7	Potential	Low

12.4. Mobility in soil

Identification	Absorption/desorption		Volatility	
Isobutane CAS: 75-28-5 EC: 200-857-2	Koc	35	Henry	1,206E+5 Pa·m³/mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	9840 N/m (25 °C)	Moist soil	Yes
Dimethyl ether CAS: 115-10-6 EC: 204-065-8	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	11360 N/m (25 °C)	Moist soil	Non-applicable
Propane CAS: 74-98-6 EC: 200-827-9	Koc	460	Henry	7,164E+4 Pa·m³/mol
	Conclusion	Moderate	Dry soil	Yes
	Surface tension	7020 N/m (25 °C)	Moist soil	Yes
Butane CAS: 106-97-8 EC: 203-448-7	Koc	900	Henry	9,626E+4 Pa·m³/mol
	Conclusion	Low	Dry soil	Yes
	Surface tension	11870 N/m (25 °C)	Moist soil	Yes
2,2´-dimorpholinyldiethyl ether CAS: 6425-39-4 EC: 229-194-7	Koc	786	Henry	2E-9 Pa·m³/mol
	Conclusion	Low	Dry soil	No
	Surface tension	Non-applicable	Moist soil	No

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 (Regulation (EU) No 1357/2014)	
16 05 04*	Gases in pressure containers (including halons) containing dangerous substances	Dangerous	

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

HP3 Flammable, HP14 Ecotoxic, HP4 Irritant — skin irritation and eye damage, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity, HP13 Sensitising, HP7 Carcinogenic

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) n°1907/2006 (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

Transport of dangerous goods by land:

With regard to ADR 2015 and RID 2015:



14.1 UN number: UN1950

14.2 UN proper shipping name: AEROSOLS, flammable

14.3 Transport hazard class(es): 2 Labels: 2.3

Labels: 2.1 **14.4 Packing group:** N/A

14.5 Dangerous for the environment: No

14.6 Special precautions for user

Annex II of Marpol and the IBC

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 toNon-applicable

Code:

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Transport of dangerous goods by sea:

With regard to IMDG 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

14.4 Packing group: N/A **Dangerous for the environment:** 14.5 No

14.6 Special precautions for user

Special regulations: Non-applicable

EmS Codes: F-D, S-U

Physico-Chemical properties: see section 9

Limited quantities: 1 I

14.7 Transport in bulk according to

Annex II of Marpol and the IBC

Code:

Transport of dangerous goods by air:

With regard to IATA/ICAO 2015:



UN number: 14.1 UN1950

14.2 UN proper shipping name: AEROSOLS, flammable

14.3 Transport hazard class(es): 2

Labels: 2.1

14.4 **Packing group:** N/A **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

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, etc):

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.

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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. :

CLP Regulation (EC) nº 1272/2008:

- · Hazard statements
- · Supplementary information

Texts of the legislative phrases mentioned in section 2:

H222: Extremely flammable aerosol

H315: Causes skin irritation

H319: Causes serious eye irritation

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

H317: May cause an allergic skin reaction

H351: Suspected of causing cancer

H362: May cause harm to breast-fed children

H335: May cause respiratory irritation

H373: May cause damage to organs through prolonged or repeated exposure

H413: May cause long lasting harmful effects to aquatic life

H302+H332: Harmful if swallowed or if inhaled

H229: Pressurised container: May burst if heated

Texts of the legislative phrases mentioned 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

CLP Regulation (EC) nº 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed Acute Tox. 4: H332 - Harmful if inhaled

Aquatic Acute 1: H400 - Very toxic to aquatic life

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects

Carc. 2: H351 - Suspected of causing cancer Eye Irrit. 2: H319 - Causes serious eye irritation Flam. Gas 1: H220 - Extremely flammable gas

Lact.: H362 - May cause harm to breast-fed children

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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 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

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

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