

Safety Data Sheet according to Regulation (EC) No 1907/2006

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SDS No.: 609119

V001.0 Revision: 09.08.2017

printing date: 23.02.2021 Replaces version from: -

Unibond 750H FOAM-FIX

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

1.1. Product identifier

Unibond 750H FOAM-FIX

Contains:

Diphenylmethane diisocyanate, isomers and homologues Alkanes, C14-17, chloro Tris(2-chloro-1-methylethyl) phosphate

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

Intended use:

Foam, 1-component with propellant gas

1.3. Details of the supplier of the safety data sheet

Henkel Ltd Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000 Fax-no.: +44 (1442) 278071

ua-productsafety.uk@henkel.com

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: technical.services@henkel.co.uk

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SECTION 2: Hazards identification

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2.1. Classification of the substance or mixture

Classification (CLP):

Aerosols Category 1

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

Skin irritation Category 2

H315 Causes skin irritation.

Serious eye irritation Category 2

H319 Causes serious eye irritation.

Respiratory sensitizer Category 1

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

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Carcinogenicity Category 2

H351 Suspected of causing cancer.

Specific target organ toxicity - single exposure Category 3

H335 May cause respiratory irritation.

Target organ: respiratory tract irritation

Specific target organ toxicity - repeated exposure Category 2

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

Acute toxicity Category 4

H302+H332 Harmful if swallowed or if inhaled.

Effects on or via lactation

H362 May cause harm to breast-fed children.

Chronic hazards to the aquatic environment Category 4

H413 May cause long lasting harmful effects to aquatic life.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Signal word: Danger

Hazard statement: H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H351 Suspected of causing cancer.

H362 May cause harm to breast-fed children. H302+H332 Harmful if swallowed or if inhaled.

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

H335 May cause respiratory irritation.

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

H317 May cause an allergic skin reaction.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H413 May cause long lasting harmful effects to aquatic life.

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Precautionary statement: P102 Keep out of reach of children.

Precautionary statement: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

Prevention No smokin

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

P251 Do not pierce or burn, even after use.

P260 Do not breathe mist/vapours.

P263 Avoid contact during pregnancy and while nursing. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/eye protection.

Precautionary statement:

Storage

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Precautionary statement:

Disposal

P501 Dispose of contents/container in accordance with national regulation.

2.3. Other hazards

Information according to XVII. 56 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.

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.

Pregnant women should absolutely avoid inhalation and skin contact.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General chemical description:

1-Component PU foam in pressurized can

Base substances of preparation:

Polyurethane prepolymer

With free 4,4'-methylenediphenyl diisocyanate (MDI)

Propellant gas base: dimethyl ether-isobutane/propane mixture

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Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	237-158-7 01-2119486772-26	1- < 25 %	Acute Tox. 4; Oral H302 Aquatic Chronic 3 H412
Dimethyl ether 115-10-6	204-065-8 01-2119472128-37	1- < 20 %	Flam. Gas 1 H220 Press. Gas H280
Propane 74-98-6	200-827-9 01-2119486944-21	1- < 20 %	Flam. Gas 1 H220 Press. Gas H280
Isobutane 75-28-5	200-857-2 01-2119485395-27	1- < 20 %	Flam. Gas 1 H220 Press. Gas
Diphenylmethane diisocyanate 32055-14-4	500-079-6 01-2119457024-46	5- < 15 %	Acute Tox. 4 H332 Skin Irrit. 2 H315 Eye Irrit. 2 H319 Resp. Sens. 1 H334 Skin Sens. 1 H317 Carc. 2 H351 STOT SE 3 H335 STOT RE 2 H373
Alkanes, C14-17, chloro 85535-85-9	287-477-0 01-2119519269-33	1-< 2,5 %	Aquatic Acute 1 H400 Lact. H362 Aquatic Chronic 1 H410 M factor (Acute Aquat Tox): 100 M factor (Chron Aquat Tox): 10

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Delayed effects possible after inhalation.

Skin contact:

Fresh foam: Wipe off affected skin area immediately with a soft cloth and then remove residues with vegetable oil; apply skin care product. Cured foam can be removed only mechanically.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

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Ingestion:

Rinse mouth, do not induce vomiting, consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Causes serious eye irritation.

SKIN: Redness, inflammation.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

May cause an allergic skin reaction.

INGESTION: Nausea, vomiting, diarrhea, abdominal pain.

Danger of serious damage to health by prolonged exposure by inhalation.

4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, foam, powder, water spray jet, fine water spray

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of fire, isocyanate vapors may be formed.

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

Additional information:

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment.

Ensure adequate ventilation.

Avoid contact with skin and eyes.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove mechanically.

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains.

During processing and drying after adhesion, ventilate well. Avoid all sources of fire such as stoves and ovens. Switch off all electrical devices such as parabolic heaters, hot plates, storage heaters etc. in good time for them to have cooled down before commencing work. Avoid all sparks, including those occurring at electrical switches and devices.

Transport by automobile: leave the container wrapped in a cloth in the trunk, never in the passenger area.

Avoid skin and eye contact.

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Remove any dirt that gets onto the skin with vegetable oil; skin care.

7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.

Store only in the original container.

For pressurized can: protect from direct sunshine and temperatures above 50°C.

Store in a cool, dry place.

Do not store near sources of heat or ignition, or reactive materials.

Ensure that storage and workrooms are adequately ventilated.

Avoid strictly temperatures below - 20 °C and above + 50 °C.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

Do not store together with oxidants.

Do not store together with flammable solutions.

7.3. Specific end use(s)

Foam, 1-component with propellant gas

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Dimethyl ether 115-10-6 [DIMETHYL ETHER]	500	958	Short Term Exposure Limit (STEL):		EH40 WEL
Dimethyl ether 115-10-6 [DIMETHYL ETHER]	400	766	Time Weighted Average (TWA):		EH40 WEL
Dimethyl ether 115-10-6 [DIMETHYLETHER]	1.000	1.920	Time Weighted Average (TWA):	Indicative	ECTLV

Occupational Exposure Limits

Valid for

Ireland

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Propane 74-98-6 [PROPANE]	1.000		Time Weighted Average (TWA):		IR_OEL
Dimethyl ether 115-10-6 [DIMETHYL ETHER]	1.000	1.920	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Dimethyl ether 115-10-6 [DIMETHYLETHER]	1.000	1.920	Time Weighted Average (TWA):	Indicative	ECTLV

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$\label{eq:predicted} \textbf{Predicted No-Effect Concentration (PNEC):}$

Name on list	Environmental Compartment	Exposure period	Value				Remarks
	, , , , , , , , , , , , , , , , , , ,	F	mg/l	ppm	mg/kg	others	
Tris(2-chloro-1-methylethyl) phosphate	aqua (freshwater)		0,64 mg/l				
Tris(2-chloro-1-methylethyl) phosphate	aqua (marine		0,064 mg/l				
13674-84-5 Tris(2-chloro-1-methylethyl) phosphate	water) aqua		0,51 mg/l				
13674-84-5	(intermittent releases)		0,51 mg/1				
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	sediment (freshwater)				13,4 mg/kg		
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	sediment (marine water)				1,34 mg/kg		
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	soil				1,7 mg/kg		
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	sewage treatment plant (STP)		7,84 mg/l				
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	oral				< 11,6 mg/kg		
Dimethyl ether 115-10-6	aqua (freshwater)		0,155 mg/l				
Dimethyl ether	sediment				0,681		
115-10-6	(freshwater)				mg/kg		
Dimethyl ether 115-10-6	soil				0,045 mg/kg		
Dimethyl ether	sewage		160 mg/l		mg ng		
115-10-6	treatment plant (STP)						
Dimethyl ether 115-10-6	aqua (marine water)		0,016 mg/l				
Dimethyl ether 115-10-6	aqua (intermittent releases)		1,549 mg/l				
Dimethyl ether 115-10-6	sediment (marine water)				0,069 mg/kg		
Formaldehyde, oligomeric reaction products with aniline and phosgene 32055-14-4	aqua (freshwater)		1 mg/l				
Formaldehyde, oligomeric reaction products with aniline and phosgene 32055-14-4	aqua (marine water)		0,1 mg/l				
Formaldehyde, oligomeric reaction products with aniline and phosgene 32055-14-4	aqua (intermittent releases)		10 mg/l				
Formaldehyde, oligomeric reaction products with aniline and phosgene 32055-14-4	sewage treatment plant (STP)		1 mg/l				
Formaldehyde, oligomeric reaction products with aniline and phosgene 32055-14-4	soil				1 mg/kg		
Alkanes, C14-17, chloro 85535-85-9	aqua (freshwater)		1 μg/l				
Alkanes, C14-17, chloro 85535-85-9	aqua (marine water)		0,2 μg/l				
Alkanes, C14-17, chloro 85535-85-9	sewage treatment plant		80 mg/l				
	(STP)						
Alkanes, C14-17, chloro 85535-85-9	sediment (freshwater)				5 mg/kg		
Alkanes, C14-17, chloro 85535-85-9	sediment (marine water)				1 mg/kg		
Alkanes, C14-17, chloro 85535-85-9	soil				10 mg/kg		

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Derived No-Effect Level (DNEL):

Trial/2-chloro-1-methylethyl) phosphate Sria/3-84-5 Trial/2-chloro-1-methylethyl) phosphate Sria/3-84-6 Trial/2-chloro-1-m	Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Tins2C-chloro-1-methylethyl) phosphate Safe-Al-1- S		Workers	dermal	exposure -		8 mg/kg	
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Systemic effects Artershort term cxposure - cxpos		Workers	Inhalation			5,82 mg/m3	
13674-84-5 General General Congress				systemic effects			
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Dimethyl ether Workers Inhalation Long term 1894 mg/m3	Tris(2-chloro-1-methylethyl) phosphate	General	Inhalation			1,46 mg/m3	
Dimethyl ether 115-10-6 20 20 20 20 20 20 20						, , ,	
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Seffects September Septe		Workers	Inhalation			0,1 mg/m3	
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		General	Inhalation			0.025 mg/m3	
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32055-14-4			effects		
Alkanes, C14-17, chloro 85535-85-9	Workers	inhalation	Long term exposure - systemic effects	6,7 mg/m3	
Alkanes, C14-17, chloro 85535-85-9	Workers	dermal	Long term exposure - systemic effects	47,9 mg/kg	
Alkanes, C14-17, chloro 85535-85-9	General population	oral	Long term exposure - systemic effects	0,58 mg/kg	
Alkanes, C14-17, chloro 85535-85-9	General population	inhalation	Long term exposure - systemic effects	2,0 mg/m3	
Alkanes, C14-17, chloro 85535-85-9	General population	dermal	Long term exposure - systemic effects	28,75 mg/kg	

Biological Exposure Indices:

None

8.2. Exposure controls:

Respiratory protection:

The product should only be used at workplaces with intensive ventilation/extraction. If intensive ventilation/extraction is not possible then self-contained independent respiratory protection should be worn.

Hand protection:

Use attached gloves. Perforation time < 5 minutes.

Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

Suitable protective clothing

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance aerosol aerosol

varied, according to coloration

Odor characteristic

Odour threshold No data available / Not applicable

pH No data available / Not applicable
Melting point No data available / Not applicable
Solidification temperature No data available / Not applicable
Initial boiling point No data available / Not applicable
Flash point No data available / Not applicable
Evaporation rate No data available / Not applicable
Flammability No data available / Not applicable

Explosive limits

lower 0,4 %(V) upper 32 %(V)

Vapour pressure No data available / Not applicable

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V001.0

Relative vapour density:

Density

No data available / Not applicable

No data available / Not applicable

Bulk density

No data available / Not applicable

Solubility

No data available / Not applicable

Solubility (qualitative) Reacts slowly with water to liberate carbon dioxide gas.

(23 °C (73.4 °F); Solvent: Water)

Partition coefficient: n-octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity

No data available / Not applicable
Viscosity (kinematic)

Explosive properties

No data available / Not applicable
Oxidising properties

No data available / Not applicable
No data available / Not applicable

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Reaction with water, formation of CO2 Pressure build-up in closed containers. Reaction with water, alcohols, amines.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Humidity

Temperatures over appr. 50 $^{\circ}\text{C}$

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

At higher temperatures isocyanate may be released.

Carbon dioxide is generated under contact with moisture, leading to pressure in the cans. Danger of cans bursting!

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Persons suffering from allergic reactions to isocyanates should avoid contact with the product.

Cross-reactions with other isocyanate compounds are possible.

STOT-single exposure:

May cause respiratory irritation.

STOT-repeated exposure:

May cause damage to organs through prolonged or repeated exposure.

Oral toxicity:

Harmful if swallowed.

Inhalative toxicity:

Harmful if inhaled.

The toxicity of the product is due to its narcotic effect after inhalation.

In the event of protracted or repeated exposure, damage to health cannot be excluded.

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Skin irritation:

Causes skin irritation.

Eye irritation:

Causes serious eye irritation.

Sensitizing:

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Carcinogenicity:

Suspected of causing cancer

Reproductive toxicity:

May cause harm to breast-fed children.

Acute oral toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Tris(2-chloro-1-	LD50	1.150 mg/kg	oral		rat	OECD Guideline 401 (Acute
methylethyl) phosphate						Oral Toxicity)
13674-84-5						-
Diphenylmethane	LD50	> 10.000 mg/kg	oral		rat	OECD Guideline 401 (Acute
diisocyanate						Oral Toxicity)
32055-14-4						
Alkanes, C14-17, chloro	LD50	> 4.000 mg/kg	oral		rat	not specified
85535-85-9						_

Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Tris(2-chloro-1- methylethyl) phosphate 13674-84-5	LC50	> 7,19 mg/l		4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Dimethyl ether	LC50	164000 ppm		4 h	rat	not specified
Propane 74-98-6	LC50	> 800000 ppm	gas	15 min	rat	not specified
Isobutane 75-28-5	LC50	260200 ppm	gas	4 h	mouse	not specified

Acute dermal toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Tris(2-chloro-1-	LD50	> 2.000 mg/kg	dermal		rat	OECD Guideline 402 (Acute
methylethyl) phosphate						Dermal Toxicity)
13674-84-5						
Diphenylmethane	LD50	> 9.400 mg/kg	dermal		rabbit	OECD Guideline 402 (Acute
diisocyanate						Dermal Toxicity)
32055-14-4						
Alkanes, C14-17, chloro	LD50		dermal		rat	not specified
85535-85-9						

Skin corrosion/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Tris(2-chloro-1-	slightly irritating		rabbit	OECD Guideline 404 (Acute
methylethyl) phosphate				Dermal Irritation / Corrosion)
13674-84-5				
Alkanes, C14-17, chloro	slightly irritating		rabbit	OECD Guideline 404 (Acute
85535-85-9				Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.		Result	Exposure time	Species	Method
Tris(2-chloro-1-	slightly irritating			rabbit	OECD Guideline 405 (Acute
methylethyl) phosphate					Eye Irritation / Corrosion)
13674-84-5					

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Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Tris(2-chloro-1-	not sensitising	Guinea pig	guinea pig	Magnusson and Kligman
methylethyl) phosphate 13674-84-5		maximisat ion test		Method

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Tris(2-chloro-1- methylethyl) phosphate 13674-84-5	negative	bacterial gene mutation assay	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Dimethyl ether 115-10-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
Propane 74-98-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Propane 74-98-6	negative			Drosophila melanogaster	not specified
Isobutane 75-28-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Isobutane 75-28-5	negative			Drosophila melanogaster	not specified

Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Tris(2-chloro-1- methylethyl) phosphate 13674-84-5	NOAEL=800 - 7500 ppm	oral: feed	90 daysad libitem	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Dimethyl ether 115-10-6	NOAEL=> 10000 ppm	inhalation	4 week6 hours/day, 5 days/week	rat	not specified
Propane 74-98-6		inhalation: gas	28 d	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Isobutane 75-28-5		inhalation: gas	28 d	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Diphenylmethane diisocyanate 32055-14-4	NOAEL=0,2 mg/m³	inhalation: aerosol	2 y6 h per d, 5 d per week	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Diphenylmethane diisocyanate 32055-14-4	NOAEL=0,2 mg/m³	inhalation: aerosol	2 y6 h per d, 5 d per week	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

SECTION 12: Ecological information

General ecological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following. Do not empty into drains, soil or bodies of water.

Ecotoxicity

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Acute invertebrate toxicity: $EC50 > 100 \ mg \ product/l.$

Aquatic plant/algae toxicity: EC50 > 100 mg product/l. Alga, Growth Inhibition test OECD 201.

12.1. Toxicity

Ecotoxicity:

May cause long lasting harmful effects to aquatic life.

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Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Tris(2-chloro-1-methylethyl) phosphate	LC50	51 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute
13674-84-5 Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	EC50	131 mg/l	Daphnia	48 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute
						Immobilisation Test)
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	EC50	82 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
	EC10	42 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	EC 50	784 mg/l	Bacteria	3 h	activated sludge	ISO 8192 (Test for Inhibition of Oxygen Consumption by
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	NOEC	32 mg/l	chronic Daphnia	21 d	Daphnia magna	Activated Sludge) OECD 211 (Daphnia magna, Reproduction Test)
Dimethyl ether 115-10-6	LC50	> 4.000 mg/l	Fish	96 h	Poecilia reticulata	OECD Guideline 203 (Fish, Acute Toxicity Test)
Dimethyl ether 115-10-6	EC50	> 4.000 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation
Dimethyl ether 115-10-6	EC50	> 1.000 mg/l	Algae	72 h	not specified	Test) OECD Guideline 201 (Alga, Growth Inhibition Test)
Dimethyl ether 115-10-6	EC10	> 1.600 mg/l	Bacteria	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen
Isobutane	EC50	7,71 mg/l	Algae	96 h		consumption test) not specified
75-28-5 Diphenylmethane diisocyanate 32055-14-4	LC0	> 1.000 mg/l	Fish	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
	LC50	> 1.000 mg/l	Fish	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute
Diphenylmethane diisocyanate 32055-14-4	EC50	> 1.000 mg/l	Daphnia	24 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute
Diphenylmethane diisocyanate 32055-14-4	EC 50	> 100 mg/l	Bacteria	3 h		Immobilisation Test) OECD Guideline 209 (Activated Sludge, Respiration
Alkanes, C14-17, chloro 85535-85-9	NOEC	> 1,6 mg/l	Fish	20 d	Oryzias latipes	Inhibition Test) OECD Guideline 210 (fish early lite
	LC50	> 5.000 mg/l	Fish	96 h	Alburnus alburnus	stage toxicity test) OECD Guideline 203 (Fish, Acute
Alkanes, C14-17, chloro 85535-85-9	EC50	0,0059 mg/l	Daphnia	48 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute Immobilisation
Alkanes, C14-17, chloro 85535-85-9	ErC50	> 3,2 mg/l	Algae	72 h		Test) OECD Guideline 201 (Alga, Growth
	NOEC	0,1 mg/l	Algae	72 h		Inhibition Test) OECD Guideline 201 (Alga, Growth
Alkanes, C14-17, chloro 85535-85-9	EC 50	> 2.000 mg/l	Bacteria	3 h		Inhibition Test) OECD Guideline 209 (Activated Sludge, Respiration
Alkanes, C14-17, chloro	NOEC	0,01 mg/l	chronic	21 d	Daphnia magna	Inhibition Test) OECD 211

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85535-85-9	I	Daphnia		(Daphnia magna,
	1			Reproduction Test)

12.2. Persistence and degradability

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	not readily biodegradable.	aerobic	0 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
Dimethyl ether 115-10-6	not readily biodegradable.	aerobic	5 %	EU Method C.4-A (Determination of the "Ready" BiodegradabilityDissolved Organic Carbon (DOC) Die-Away Test)
Diphenylmethane diisocyanate 32055-14-4		no data	0 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
Alkanes, C14-17, chloro 85535-85-9		aerobic	90 %	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Hazardous components	LogPow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time			
Tris(2-chloro-1-methylethyl)		> 0,8 - < 2,8	42 d	no data		OECD Guideline 305 C
phosphate						(Bioaccumulation: Test for
13674-84-5						the Degree of
Tris(2-chloro-1-methylethyl)	2,68					Bioconcentration in Fish) OECD Guideline 117
phosphate						(Partition Coefficient (n-
13674-84-5						octanol / water), HPLC
						Method)
Dimethyl ether	0,07				25 °C	QSAR (Quantitative
115-10-6						Structure Activity
						Relationship)
Isobutane	2,88				20 °C	OECD Guideline 107
75-28-5						(Partition Coefficient (n-
						octanol / water), Shake
						Flask Method)
Alkanes, C14-17, chloro		1,09 - 349	35 d	Oncorhynchus		OECD Guideline 305
85535-85-9				mykiss		(Bioconcentration: Flow-
						through Fish Test)

12.5. Results of PBT and vPvB assessment

Hazardous components	PBT/vPvB
CAS-No.	
Tris(2-chloro-1-methylethyl) phosphate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
13674-84-5	Bioaccumulative (vPvB) criteria.
Dimethyl ether	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
115-10-6	Bioaccumulative (vPvB) criteria.
Propane	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
74-98-6	Bioaccumulative (vPvB) criteria.
Isobutane	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
75-28-5	Bioaccumulative (vPvB) criteria.
Diphenylmethane diisocyanate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
32055-14-4	Bioaccumulative (vPvB) criteria.
Alkanes, C14-17, chloro	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
85535-85-9	Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Completely empty pressurized gas containers (including propellant gas).

Only empty containers are to be disposed of as recoverable materials.

Waste code

160504 gases in pressure containers (including halons) containing dangerous substances

SECTION 14: Transport information

14.1. UN number

ADR	1950
RID	1950
ADN	1950
IMDG	1950
IATA	1950

14.2. UN proper shipping name

ADR	AEROSOLS
RID	AEROSOLS
ADN	AEROSOLS
IMDG	AEROSOLS
IATA	Aerosols, flammable

14.3. Transport hazard class(es)

ADR	2.1
RID	2.1
ADN	2.1
IMDG	2.1
IATA	2.1

14.4. Packing group

ADR RID ADN IMDG IATA

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable
	Tunnelcode: (D)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

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SECTION 15: Regulatory information

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

VOC content 21,3 %

(VOCV 814.018 VOC regulation

CH)

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H362 May cause harm to breast-fed children.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.