# SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

ANKIEWICZ Lackierideen der Zukunft

Commercial Product Name: ALEXIT BR1275-BladeRep Topcoat 12 Quality No.: 547437035W000 consisting of the components: Commercial Product Name: ALEXIT BR1275-BladeRep Topcoat 12 / Quality No.: 471437035W000 Commercial Product Name: ALEXIT BR12H0-BladeRep Hardener 12 / Quality No.: 4053D0000000

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

## 1.1 Product identifier

Trade name

: ALEXIT BR1275-BladeRep Topcoat 12 RAL 7035 lichtgrau / light grey matt

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

Use of the	:	Industrial serial painting
Substance/Mixture		

# 1.3 Details of the supplier of the safety data sheet

Producer	:	Mankiewicz Gebr. & Co. (GmbH & Co. KG) Georg-Wilhelm-Strasse 189 21107 Hamburg Germany
Telephone Telefax E-mail address	:	+49 (0) 40 75103 0 +49 (0) 40 75103 375 sdb_info@umco.de

# 1.4 Emergency telephone number

Emergency telephone	:	+49 (0) 551 / 19240 (Toxic agent information centre North /
number		NORD)

# **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

## Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

## 2.2 Label elements

## Labelling (REGULATION (EC) No 1272/2008)

 
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Hazard pictograms	:		!
Signal word	: V	Varning	
Hazard statements	H	1226 1317 1336 1412	Flammable liquid and vapour. May cause an allergic skin reaction. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.
Supplemental Hazard Statements	: E	EUH066	Repeated exposure may cause skin dryness or cracking.
Precautionary statements	• •	Prevention: 2210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	Ρ	261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
	Р	273	Avoid release to the environment.
	P	280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
	R	Response:	
	Ρ	2303 + P361 + P355	3 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
	Ρ	2370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Hazardous components whic 64742-95-6 H		e listed on the label ons, C9, aromatics	:

123-86-4 n-butyl acetate

> Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

> reaction mass of a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4hydroxyphenyl)propionyl-?-hydroxypoly(oxyethylene) and a-3-(3-(2Hbenzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-?-3-(3-(2Hbenzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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Georg-Wilhelm-Straße 189	Deutsche Bank	Hamburg	600227300	200 700 00	DEUTDEHHXXX	DE58 2007 0000 0600 2273 00	Persönlich haftende Gesellschafterin:	Certification:	E SA
21107 Hamburg (Wilhelmsburg)	HypoVereinsbank	Hamburg	59273300	200 300 00	HYVEDEMM300	DE34 2003 0000 0059 2733 00	Grau Gebr. Beteiligungs-GmbH	ISO 9001,	
Tel.: +49 (0) 40 / 75 10 30	Postbank	Hamburg	373205	200 100 20	PBNKDEFF200	DE85 2001 0020 0000 3732 05	Sitz/Registergericht Hamburg: HRB 17189	TS 16949,	1 225
Fax: +49 (0) 40 / 75 10 33 75							Sitz/Registergericht Hamburg: HRA 42442 Persönlich haftende Gesellschafterin: Grau Gebr. Beteiligungs-GmbH Sitz/Registergericht Hamburg: HRB 17189 Geschäftsführender Gesellschafter:	EN 9100	1828
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# **SECTION 3: Composition/information on ingredients**

## 3.2 Mixtures

Chemical nature

: Mixture of synthetic resins, organic solvents and pigments

### Hazardous components

Chemical name CAS-No. EC-No. Registration number Remarks	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Hydrocarbons, C9, aromatics 64742-95-6 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H335, H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 12,5 - < 20
Reaction mass of Bis(1,2,2,6,6- pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4- piperidyl sebacate 01-2119491304-40	Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,5 - < 1
reaction mass of a-3-(3-(2H- benzotriazol-2-yl)-5-tert-butyl-4- hydroxyphenyl)propionyl-?- hydroxypoly(oxyethylene) and a-3-(3- (2H-benzotriazol-2-yl)-5-tert-butyl-4- hydroxyphenyl)propionyl-?-3-(3-(2H- benzotriazol-2-yl)-5-tert-butyl-4- hydroxyphenyl)propionyloxypoly(oxyeth ylene) 400-830-7 01-0000015075-76	Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 0,25 - < 0,5
Substances with a workplace exposure li	mit ·	
n-butyl acetate 123-86-4 204-658-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336	>= 5 - < 12,5

# **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

#### General advice

#### : In all cases of doubt, or when sickness symptoms persist, seek

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Fax: +49 (0) 40 / 75 10 33 75 www.mankiewicz.de	Postbank	nanoug	010200	200 100 20	I DINIGEI I 200	200 200 10020 0000 0102 00	Geschäftsführender Gesellschafter: Michael O. Grau	EN 9100	1828

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medica lattention.	

	Never give anything by mouth to an unconscious person.
If inhaled	<ul> <li>Remove to fresh air, keep patient warm and at rest.</li> <li>Irregular breathing/no breathing: artificial respiration.</li> <li>If unconscious place in recovery position and seek medical advice.</li> </ul>
In case of skin contact	<ul> <li>Take off all contaminated clothing immediately.</li> <li>Wash skin thoroughly with soap and water or use recognised skin cleanser.</li> <li>Do NOT use solvents or thinners !</li> </ul>
In case of eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.
If swallowed	<ul> <li>Do NOT induce vomiting.</li> <li>If accidentally swallowed obtain immediate medical attention.</li> <li>Never give anything by mouth to an unconscious person.</li> <li>Keep at rest.</li> </ul>
2 Most important symptoms and	effects, both acute and delayed

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: No information available.
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4.3 Indication of any immediate medical attention and special treatment needed

Troote	+
Treatr	nent

: No information available.

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	: Alcohol resistant foam, CO2, powders, water spray
Unsuitable extinguishing media	: High volume water jet
5.2 Special hazards arising from the	substance or mixture
Specific hazards during firefighting	: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
5.3 Advice for firefighters	
Special protective equipment for firefighters	: Appropriate breathing apparatus may be required.
Further information	: Cool endangered containers with water in case of fire. DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER DRAINS OR WATER COURSES!!



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# SECTION 6: Accidental release measures

OECTION 0. Accidental relea	se measures
6.1 Personal precautions, protective e	quipment and emergency procedures
Personal precautions	<ul> <li>Exclude sources of ignition and ventilate the area.</li> <li>Do not inhale vapours.</li> <li>Refer to protective measures listed in sections 7 and 8.</li> </ul>
6.2 Environmental precautions	
Environmental precautions	: Do not let product enter drains. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.
6.3 Methods and material for containm	ent and cleaning up
Methods for cleaning up	<ul> <li>Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see chapter 13).</li> <li>Clean preferably with a detergent; avoid use of solvents.</li> </ul>

# 6.4 Reference to other sections

For personal protection see section 8.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Advice on safe handling	:	Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits. Comply with the health and safety at work laws. Smoking, eating and drinking should be prohibited in the application area. Observe specific national regulations for handling and use of paints.
Advice on protection against fire and explosion	:	The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use earthing leads whentransferring from one container to another. Operators should wear anti-static footwear and clothing. No sparking tools should be used. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

# 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas	:	Electrical equipment should be protected to the appropriate standard.
and containers		Floors should be of the conducting type. Keep container tightly
		closed. Never use pressure to empty: container isnot a pressure
		vessel. No smoking. Prevent unauthorized access. Containers which



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	are opened must be carefully resealed a leakage.	nd kept upright to prevent
Further information on storage conditions	: Always keep in containers of same mater also instructions on the label. Avoid hea container dry in a cool, well-ventilated pl	ting and direct sunlight. Keep
Advice on common storage	: Keep away from oxidizing agents and st materials.	rongly acid or alkaline
Storage temperature	: 5 - 35 °C	

# 7.3 Specific end use(s)

Specific use(s)

: This information is not available.

# **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

# **Occupational Exposure Limits**

CAS-No.	Source	Value	Ceiling Limit Value	Update
n-butyl acetate				
123-86-4	List of approved workplace exposure limits (WELs) / EH40	150 ml/m3 724 mg/m3		December 2011

# Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

	,	5	5		
n-butyl acetate	:	End U	se: Wor	kers	
		Expos	ure rout	es: Inhalatio	n
		Potent	ial healt	th effects: Lo	ong-term systemic effects
			300 m		0
			se: Wor	0	
				es: Dermal	
					ong-term systemic effects
				/kg bw/day	
				sumers	
				es: Inhalatio	a
					ong-term systemic effects
			35,7 m		Sig-term systemic enects
				sumers	
				es: Dermal	
					ong-term systemic effects
				g/kg bw/day	
				sumers	
				es: Oral	
					ong-term systemic effects
		Value:	2 mg/k	kg bw/day	
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Tel.: +49 (0) 40 / 75 10 30	Postbank	Hamburg	373205	200 100 20	PBNKDEFF200	DE85 2001 0020 0000 3732 05	Sitz/Registergericht Hamburg: HRB 17189	TS 16949,	128
Fax: +49 (0) 40 / 75 10 33 75							Geschäftsführender Gesellschafter:	EN 9100	7828
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# Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

n-butyl acetate : Fresh water Value: 0,18 mg/l Marine water Value: 0,0018 mg/l Fresh water sediment Value: 0,981 mg/kg dry weight (d.w.) Marine sediment Value: 0,098 mg/kg dry weight (d.w.) Sewage treatment plant Value: 35,6 mg/l Soil Value: 0.09 mg/kg dry weight (d.w.)

#### 8.2 Exposure controls

# **Engineering measures**

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Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain aerosol- and solvent vapours concentration below the OEL, suitable respiratory protection must be worn.

Personal protective equipment				
Eye protection	:	Wear safety goggles to protect against solvent splashes.		
Hand protection Remarks	:	<ul> <li>Adhere to the professional organisation rule "Use of protective gloves". Appropriate chemicals resistant glove tested in complianc with EN 374.</li> <li>Recommendation for protection against components generally four in the products:</li> </ul>		
		For short-term contact (i.e. splash protection): Appropriate material: nitrile rubber, Neoprene Material thickness: > 0,4 mm Breakthrough time: > 480 min		
		Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Preventive hand protection (skin protection cream) recommended. Wash immediately contaminated skin. Design operations thus to avoid permanent use of protective gloves.		
Skin and body protection	:	Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body shouldbe washed after contact.		
Respiratory protection	:	If workers are exposed to concentrations above the exposure limit		



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they must use appropriate, certified respirators. Use half-mask model with cartridge or air-fed.Dry grinding, torch cutting and/or welding however can produce hazardous dust and/or vapour. If possible, machine employing a wet medium.Where practicable, install exhaust hoods to improve capture of vapours and fumes and avoid exposition; otherwise wear respiratory protection equipment.

Protective measures Do not eat or drink during work - no smoking. Avoid product contact with skin, eyes and clothing. Avoid the inhalation of dust from sanding, particulates and spray mist arising from the application of this preparation. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Appearance Colour Odour Flash point	<ul> <li>liquid</li> <li>according product name</li> <li>characteristic</li> <li>34 °C</li> <li>Method: ISO 13736</li> </ul>
Upper explosion limit	: 10 %(V)
Lower explosion limit	: 1 %(V)
Vapour pressure	: ca. 100 hPa (50 °C)
Density	: ca. 1,4 g/cm3 (20 °C)
Water solubility	: insoluble
Auto-ignition temperature	: > 400 °C
Viscosity Flow time	: > 150 s Cross section: 4 mm Method: DIN 53211
	> 100 s

Cross section: 6 mm Method: ISO 2431



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## 9.2 Other information

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions	: No dangerous reaction known under conditions of normal use. There are no data available on the preparation itself.
10.4 Conditions to avoid	
Conditions to avoid	: Stable under recommended storage and handling conditions (See section 7).
10.5 Incompatible materials	
Materials to avoid	: Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
10.6 Hazardous decomposition p	roducts
Hazardous decomposition products	<ul> <li>When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.</li> </ul>

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

#### Acute toxicity

#### **Further information**

#### Product:

Remarks: Exposure of vapour concentration in excess of the stated OEL's may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue muscular weakness, drowsiness and in extrem cases, loss of consciousness., Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin., The liquid splashed in the eyes may cause irritation and reversible damage.

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# **SECTION 12: Ecological information**

12.1 Toxicity	
<b>Product:</b> Ecotoxicology Assessment Short-term (acute) aquatic hazard	: There are no data available on the preparation itself.
<u>Components:</u> Hydrocarbons, C9, aromatics, H	lydrocarbons, C9, aromatics:
Toxicity to fish	<ul> <li>LC50 (Oncorhynchus mykiss (rainbow trout)): 9,2 mg/l</li> <li>Exposure time: 96 h</li> <li>Method: OECD Test Guideline 203</li> </ul>
Toxicity to daphnia and other aquatic invertebrates	<ul> <li>EC50 (Daphnia magna (Water flea)): 3,2 mg/l</li> <li>Exposure time: 48 h</li> <li>Method: OECD Test Guideline 202</li> </ul>
Toxicity to algae	<ul> <li>ErC50 (Raphidocelis subcapitata (freshwater green alga)): 2,9 mg/l</li> <li>Exposure time: 72 h</li> <li>Method: OECD Test Guideline 201</li> </ul>
	pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4- ass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl yl sebacate:
Toxicity to fish	<ul> <li>LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,97 mg/l Exposure time: 96 h Method: OECD Test Guideline 203</li> </ul>
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 20 mg/l Exposure time: 24 h Method: OECD Test Guideline 202
Toxicity to algae	<ul> <li>EC50 (Desmodesmus subspicatus (green algae)): 1,68 mg/l</li> <li>Exposure time: 72 h</li> <li>Method: OECD Test Guideline 201</li> <li>Remarks: The product has low solubility in the test medium. An aqueous dispersion was tested.</li> </ul>
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	<ul> <li>NOEC: 1 mg/l Exposure time: 21 d</li> <li>Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 Remarks: The product has low solubility in the test medium. An aqueous dispersion was tested.</li> </ul>
12.2 Persistence and degradability	

# **Product:**

Biodegradability

: Remarks: There are no data available on the preparation itself.



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## 12.3 Bioaccumulative potential

	Product: Bioaccumulation	:	Remarks: There are no data available on the preparation itself.
12.4	Mobility in soil		
	Product: Mobility	:	Remarks: There are no data available on the preparation itself.
12.5	Results of PBT and vPvB assessn	ne	ent
	Product:		
	Assessment		This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher
12.6	Other adverse effects		
	Product:		
	Additional ecological information	:	There are no data available on the preparation itself.
			The product should not be allowed to enter drains or water courses.

# **SECTION 13: Disposal considerations**

13.1 Waste treatment methods Product	: The listed waste code numbers, according to the European Waste Catalogue, are to be understood as a recommendation. A final
	decision must be made in agreement with the regional waste disposal company.
Contaminated packaging	<ul> <li>Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.</li> <li>Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.</li> </ul>
Waste key for the unused product	: 080111 waste paint and varnish containing organic solvents or other dangerous substances

# **SECTION 14: Transport information**

## 14.1 UN number

ADR	:	UN 1263
IMDG	:	UN 1263
ΙΑΤΑ	:	UN 1263

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Tel.: +49 (0) 40 / 75 10 30	Postbank	Hamburg	373205	200 100 20	PBNKDEFF200	DE85 2001 0020 0000 3732 05	Sitz/Registergericht Hamburg: HRB 17189	TS 16949,	1 22-8
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## 14.2 UN proper shipping name

ADR	: PAINT
IMDG	: PAINT
ΙΑΤΑ	: PAINT
14.3 Transport hazard class(es)	
ADR	: 3
IMDG	: 3
ΙΑΤΑ	: 3
14.4 Packing group	
ADR	
Packing group	: III
Classification Code	: F1
Hazard Identification Number	: 30
Labels	: 3
Tunnel restriction code	: (D/E)
IMDG	
Packing group	: III
Labels	: 3
EmS Code	: <u>F-E</u> , <u>S-E</u>
ΙΑΤΑ	
Packing instruction (cargo aircraft)	: 366
Packing instruction (passenger aircraft)	: 355
Packing group	: III
Labels	: Flammable Liquids
14.5 Environmental hazards	
ADR	
Environmentally hazardous	: no
IMDG	
Marine pollutant	: no
14.6 Special precautions for user Remarks	<ul> <li>If transported within the user's premises: To be transported always in closed, upright and safe containers. Make sure that persons handling these containers are aware of the rules of conduct in case of incident or spillage.</li> <li>Receptacles with less than 450 litres capacity, are not subject to ADR (see ADR 2.2.3.1.5)</li> </ul>

ware of the rules of conduct in case of incident han 450 litres capacity, are not subject to ADR (see ADR 2.2.3.1.5) Receptacles with less than 30 litres capacity, are not subject to the regulations of IMDG chapters 4.1, 5.2 and 6.1 (see IMDG 2.3.2.5)

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

Not applicable for product as supplied.

# **SECTION 15: Regulatory information**

	irective 2010/75/EU of 24 : VOC content excluding water 25 %						
Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)	: VOC content excluding water	25 % 353 g/l					
Other regulations	: The information given in this material release the user from its duty of risk a work place defined in other health and Adhere to the national sanitary and or when using this product.	ssessment and control in the d safety law.					

## 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the mixture.

# **SECTION 16: Other information**

## Full text of H-Statements

H226 H304 H317 H335 H336 H400 H410 H411 Aquatic Acute Aquatic Chronic Asp. Tox. Flam. Liq.	Flammable liquid and vapour. May be fatal if swallowed and enters airways. May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Flammable liquids
Further information	
Further information	
Other information	: This safety datasheet complies with the requirements of regulation

#### Department issuing safety data sheet



(EC) No 1907/2006(2015/830).

according to Regulation (EC) No. 1907/2006



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UMCO GmbH Georg-Wilhelm-Str.187, D-21107 Hamburg Telefon: +49(0)40/555 546 300 Fax: +49(0)40/555 546 357 e-mail:umco@umco.de

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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

# 1.1 Product identifier

Trade name : ALEXIT BR12H0-BladeRep Hardener 12 farblos / transparent

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

Use of the	:	Industrial serial painting
Substance/Mixture		

# 1.3 Details of the supplier of the safety data sheet

Producer	:	Mankiewicz Gebr. & Co. (GmbH & Co. KG) Georg-Wilhelm-Strasse 189 21107 Hamburg Germany
Telephone	:	+49 (0) 40 75103 0
Telefax	:	+49 (0) 40 75103 375
E-mail address	:	sdb_info@umco.de

# 1.4 Emergency telephone number

Emergency telephone	:	+49 (0) 551 / 19240 (Toxic agent information centre North /
number		NORD)

# **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3

H226: Flammable liquid and vapour.

Acute toxicity, Category 4

H332: Harmful if inhaled.

 
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Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

H336: May cause drowsiness or dizziness.

Specific target organ toxicity - single exposure, Category 3, Central nervous system Specific target organ toxicity - single exposure, Category 3, Respiratory system

H335: May cause respiratory irritation.

#### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:		!
Signal word	:	Warning	
Hazard statements	:	H226 H317 H332 H335 H336	Flammable liquid and vapour. May cause an allergic skin reaction. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.
Supplemental Hazard Statements	:	EUH066	Repeated exposure may cause skin dryness or cracking.
Precautionary statements	:	<b>Prevention:</b> P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
		P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
		Deemenaer	

# **Response:** P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

28182-81-2 Hexamethylene diisocyanate, oligomers

123-86-4 n-butyl acetate

 
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 PBNKDEFF200
 DE85 2001 0020 0000 373 205
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822-06-0 hexamethylene-di-isocyanate

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. The information required is contained in this Material Safety Data Sheet.

# **SECTION 3: Composition/information on ingredients**

## 3.2 Mixtures

Chemical nature

: Hardener based on polyisocyanates

# Hazardous components

Chemical name CAS-No. EC-No. Registration number Remarks	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Hexamethylene diisocyanate, oligomers 28182-81-2 01-2119488934-20	Acute Tox. 4; H332 Skin Sens. 1; H317 STOT SE 3; H335	>= 40 - <= 100
hexamethylene-di-isocyanate 822-06-0 212-485-8 01-2119457571-37	Acute Tox. 4; H302 Acute Tox. 1; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335	>= 0,25 - < 0,5
Substances with a workplace exposure li	imit :	
n-butyl acetate 123-86-4 204-658-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336	>= 25 - < 40

# **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

General advice			me	edica la	ttention.		ess symptoms persist, se unconscious person.	∍ek	
If inhaled			Irre	egular b	oreathing/i	• •	ficial respiration. ition and seek medical a		
	Deutsche Bank	Hamburg	600227300	200 700 00	DEUTDEHHXXX	IBAN DE58 2007 0000 0600 2273 00 DE34 2003 0000 0059 2733 00	Sitz/Registergericht Hamburg: HRA 42442 ) Persönlich haftende Gesellschafterin: ) Grau Gebr. Beteiligungs-GmbH	Bureau Veritas Certification:	

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 Hamburg
 373205
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 PBNKDEFF200
 DE85 2001 0020 0000 3732 05
 Sitz/Registergericht Hamburg: HRB 17189
 TS 16949

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In case of skin contact	<ul> <li>Take off all contaminated clothing immediately.</li> <li>Wash skin thoroughly with soap and water or use recognised skin cleanser.</li> <li>Do NOT use solvents or thinners !</li> </ul>
In case of eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.
If swallowed	: Do NOT induce vomiting. If accidentally swallowed obtain immediate medical attention. Never give anything by mouth to an unconscious person. Keep at rest.

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

Symptoms	:	No information available.
----------	---	---------------------------

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

Treatment	: No information available.

# SECTION 5: Firefighting measures

## 5.1 Extinguishing media

Suitable extinguishing media	: Alcohol resistant foam, CO2, powders, water spray
Unsuitable extinguishing media	a : High volume water jet
2 Special hazards arising from t	he substance or mixture
Specific hazards during	: Fire will produce dense black smoke. Exposure to decomp

# 5.2

Specific hazards during firefighting	: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.	
5.3 Advice for firefighters		
Special protective equipment for firefighters	: Appropriate breathing apparatus may be required.	
Further information	: Cool endangered containers with water in case of fire. DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER DRAINS OR WATER COURSES!!	



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# **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

en reisena presautene, presestre	94	alpinont and onlor gone, procoadi			
Personal precautions	Ethanol or Isopropyl Alcohol50 VoAmmonia solution (density=0,88)5 Vol.%Alternative applicable to that (not flammable): Sodium Carbonate5 Vo		in sections 7 and 8. reas with following substances: 45 Vol.% 50 Vol.% 5 Vol.%		
6.2 Environmental precautions		Do not lot product onter draine			
Environmental precautions		: Do not let product enter drains. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to local regulations.			
6.3 Methods and material for contain	me	nt and cleaning up			
Methods for cleaning up	: Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see chapter 13). Clean preferably with a detergent; avoid use of solvents.				

## 6.4 Reference to other sections

For personal protection see section 8.

# **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Advice on safe handling : Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used ! Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits. Comply with the health and safety at work laws. Smoking, eating and drinking should be prohibited in the application area.

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Advice on protection against fire The product should only be used in areas from which all naked lights and explosion and other sources of ignition have been excluded. Preparation may charge electrostatically: always use earthing leads whentransferring from one container to another. Operators should wear anti-static footwear and clothing. No sparking tools should be used. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. 7.2 Conditions for safe storage, including any incompatibilities Requirements for storage areas : Electrical equipment should be protected to the appropriate standard. and containers Floors should be of the conducting type. Keep container tightly closed. Never use pressure to empty: container isnot a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Further information on storage Always keep in containers of same material as the original one. See : conditions also instructions on the label. Avoid heating and direct sunlight. Keep container dry in a cool, well-ventilated place. Precautions should be taken to minimise exposure to atmospheric humidityor water: CO2 will be formed which in closed containers can result in pressurisation. DO NOT KEEP THE CONTAINERS SEALED !! Keep away from oxidizing agents and strongly acid or alkaline Advice on common storage ÷ materials. Storage temperature : 5 - 35 °C 7.3 Specific end use(s) Specific use(s) : This information is not available.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

# **Occupational Exposure Limits**

CAS-No.		Source		Value		Ceili Valu	ng Limit e	Upda	ite	
n-butyl acetate										
123-86-4		List of appr workplace exposure li (WELs) / E	mits	150 m 724 m				Dece	mber 20	)11
hexamethylene-di-iso	cyanate									
822-06-0		List of appr workplace exposure li (WELs) / E	mits	0,02 m	ig/m3			Dece	mber 20	011
Mankiewicz Gebr. & Co. (GmbH & Co. KG Georg-Wilhelm-Straße 189 21107 Hamburg WilhelmSburg) Tel.: +49 (0) 40 / 75 10 30 Fax: +49 (0) 40 / 75 10 33 75 www.mankiewicz.de	) Bank Name Deutsche Bank HypoVereinsbank Postbank	Ort         KtoNr.           Hamburg         600227300           Hamburg         59273300           Hamburg         373205	200 700 00 E 200 300 00 F	BIC DEUTDEHHXXX HYVEDEMM300 PBNKDEFF200	IBAN DE58 2007 0000 0600 3 DE34 2003 0000 0059 3 DE85 2001 0020 0000 3	2273 00 Pi 2733 00 G 3732 05 Si G	itz/Registergericht Hamburg: ersönlich haftende Gesellsch irau Gebr. Beteiligungs-Gmbł itz/Registergericht Hamburg: ieschäftsführender Gesellsch. lichael O. Grau	afterin: H HRB 17189	Certification: ISO 9001,	

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Further information:	

# Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

n-butyl acetate	: End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 300 mg/m3 End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 11 mg/kg bw/day End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 35,7 mg/m3 End Use: Consumers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 554 mg/kg bw/day End Use: Consumers Exposure routes: Oral Potential health effects: Long-term systemic effects Value: 2 mg/kg bw/day
Predicted No Effect Cor	ncentration (PNEC) according to Regulation (EC) No. 1907/2006:

n-butyl acetate : Fresh water Value: 0,18 mg/l Marine water Value: 0,0018 mg/l Fresh water sediment Value: 0,981 mg/kg dry weight (d.w.) Marine sediment Value: 0,098 mg/kg dry weight (d.w.) Sewage treatment plant Value: 35,6 mg/l Soil Value: 0,09 mg/kg dry weight (d.w.)

## 8.2 Exposure controls

#### **Engineering measures**

Provide adequate ventilation. Where reasonably practicable this shoud be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and below the OEL (= Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protective equipment Eye protection	: Wear safety goggles to protect against solvent splashes.
Hand protection Remarks	<ul> <li>Adhere to the professional organisation rule "Use of protective gloves". Appropriate chemicals resistant glove tested in compliance with EN 374.</li> <li>Recommendation for protection against components generally found in the products:</li> </ul>

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	For short-term contact (i.e. splash protection): Appropriate material: nitrile rubber, Neoprene Material thickness: > 0,4 mm
	Breakthrough time: > 480 min
Skin and body protection	<ul> <li>Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Preventive hand protection (skin protection cream) recommended. Wash immediately contaminated skin. Design operations thus to avoid permanent use of protective gloves.</li> <li>Personal should wear antistatic clothings made of natural fiber or ofhigh temperature resistant synthetic fiber. All parts of the body should be washed after contact.</li> </ul>
Respiratory protection	: By spraying: air-fed respirator. By other operations than spraying: in well ventilated areas, air-fed respirators could be replaced by a combination of charcoal filter andparticulate filter maskUse half-mask model with cartridge or air-fed.
Protective measures	: Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used.Do not eat or drink during work - no smoking.Avoid product contact with skin, eyes and clothing.Avoid the inhalation of dust from sanding, particulates and spray mist arising from the application of this preparation.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Appearance Colour Odour Boiling point/boiling range	: liquid : according product name : characteristic : ca. 120 °C
Flash point	: 35 °C Method: ISO 13736
Upper explosion limit	: 10,0 %(V)
Lower explosion limit	: 1,0 %(V)

 
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 Grau Gebt. Beteiligungs-GmbH
 ISO 9001.

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 Sitz/Registergericht Hamburg: HRB 17189
 TS 16949, Geschäftsführender Gesellschafter:
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Lackierideen der Zukunft

according to Regulation (EC) No. 1907/2006



Commercial Product Name: ALEXIT BR1275-BladeRep Topcoat 12 Quality No.: 547437035W000 consisting of the components: Commercial Product Name: ALEXIT BR1275-BladeRep Topcoat 12 / Quality No.: 471437035W000 Commercial Product Name: ALEXIT BR12H0-BladeRep Hardener 12 / Quality No.: 4053D00000000

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Vapour pressure	: ca. 100 hPa (50 °C)
Density	: ca. 1,06 g/cm3 (20 °C)
Water solubility	: insoluble
Auto-ignition temperature	: > 400 °C
Viscosity Flow time	: 33 s Cross section: 4 mm Method: DIN 53211
	23 s Cross section: 6 mm Method: ISO 2431

## 9.2 Other information

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

## **10.2 Chemical stability**

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

Hazardous reactions	: No dangerous reaction known under conditions of normal use. There are no data available on the preparation itself.
10.4 Conditions to avoid	
Conditions to avoid	: Stable under recommended storage and handling conditions (See section 7).
10.5 Incompatible materials	
Materials to avoid	<ul> <li>Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.</li> <li>The product reacts slowly with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result distortion blowing and in extreme cases bursting of the container.</li> </ul>

#### **10.6 Hazardous decomposition products**

Hazardous decomposition products			<ul> <li>In a fire, hazardous decomposition products, such as smoke, carbon monoxide, carbon dioxiode, oxides of nitrogen, hydrogen cyanide,</li> </ul>								
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monomers of isocvanates, amines and alcohols may be produced.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Acute toxicity	
<b>Product:</b> Acute inhalation toxicity	: Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.
	Acute toxicity estimate : 11,35 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Components: Hexamethylene diisocyanate Acute inhalation toxicity	e, oligomers, Hexamethylene diisocyanate, oligomers : : Assessment: The substance/mixture is not toxic on inhalation as
	defined by dangerous goods regulations.
hexamethylene-di-isocyanat Acute oral toxicity	<b>ie, hexamethylene-di-isocyanate :</b> : LD50 (Rat): 746 mg/kg Method: OECD Test Guideline 401

#### **Components:**

Hexamethylene diisocyanate, oligomers, Hexamethylene diisocyanate, oligomers: Species: Mouse Assessment: May cause sensitisation by skin contact. Method: OECD Test Guideline 406

## **Components:**

Hexamethylene diisocyanate, oligomers, Hexamethylene diisocyanate, oligomers : Assessment: May cause respiratory irritation.

## **Further information**

#### Product:

Remarks: Exposure of vapour concentration in excess of the stated OEL's may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue muscular weakness, drowsiness and in extrem cases, loss of consciousness., Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin., The liquid splashed in the eyes may cause irritation and reversible damage., Based on the properties of the isocyanate components and considering toxicological data on similar



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preparations: This preparation may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and a thightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability.

# **SECTION 12: Ecological information**

12.	1 Toxicity		
	<b>Product:</b> Ecotoxicology Assessment Short-term (acute) aquatic hazard	:	There are no data available on the preparation itself.
12.	2 Persistence and degradability		
	<b>Product:</b> Biodegradability	:	Remarks: There are no data available on the preparation itself.
12.	3 Bioaccumulative potential		
	Product: Bioaccumulation	:	Remarks: There are no data available on the preparation itself.
12.	4 Mobility in soil		
	Product: Mobility	:	Remarks: There are no data available on the preparation itself.
12.	5 Results of PBT and vPvB assess	sm	ent
	Product: Assessment	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher
12.	6 Other adverse effects		
	<b>Product:</b> Additional ecological information	:	There are no data available on the preparation itself.
			The product should not be allowed to enter drains or water courses.

# **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

Product

: The listed waste code numbers, according to the European Waste Catalogue, are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

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Contaminated packaging	Contaminated packaging should be after appropriate cleansing may be Packaging that cannot be cleaned s agreement with the regional waste	taken for reuse. should be disposed off in
Waste key for the unused product	080111 waste paint and varnish co dangerous substances	ontaining organic solvents or other

# **SECTION 14: Transport information**

14.1 UN number	
ADR	: UN 1263
IMDG	: UN 1263
ΙΑΤΑ	: UN 1263
14.2 UN proper shipping name	
ADR	: PAINT RELATED MATERIAL
IMDG	: PAINT RELATED MATERIAL
ΙΑΤΑ	: PAINT RELATED MATERIAL
14.3 Transport hazard class(es)	
ADR	: 3
IMDG	: 3
ΙΑΤΑ	: 3
14.4 Packing group	
<b>ADR</b> Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code	: III : F1 : 30 : 3 : (D/E)
IMDG Packing group Labels EmS Code IATA	: III : 3 : <u>F-E</u> , <u>S-E</u>
Packing instruction (cargo aircraft) Packing instruction (passenger aircraft)	: 366 : 355

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Packing group : 111 Labels : Flammable Liquids 14.5 Environmental hazards ADR Environmentally hazardous : no IMDG Marine pollutant : no 14.6 Special precautions for user Remarks : If transported within the user's premises: To be transported always in closed, upright and safe containers. Make sure that persons handling these containers are aware of the rules of conduct in case of incident or spillage.

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

Not applicable for product as supplied.

# **SECTION 15: Regulatory information**

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

REACH - Candidate List of Substances of Very High Concern : Not applicable

for Authorisation (Article 59).

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)	: VOC content excluding water	25 % 265 g/l
Other regulations	: The information given in this material safe release the user from its duty of risk asses work place defined in other health and saf Adhere to the national sanitary and occup when using this product.	ssment and control in the fety law.

## 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the mixture.

# **SECTION 16: Other information**

# Full text of H-Statements

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

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H330 H332 H334 H335 H336 Acute Tox. Eye Irrit. Further information Further information	Fatal if inhaled. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Acute toxicity Eye irritation
Other information	: This safety datasheet complies with the requirements of regulation (EC) No 1907/2006(2015/830).

## Department issuing safety data sheet

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