according to Regulation (EC) No. 1907/2006



Revision Date 11.08.2017 Print Date 11.08.2017 Version 1

Commercial Product Name: ALEXIT BR10H0-BladeRep Hardener 10

Quality No.: 4459A90Q20000

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

1.1 Product identifier

Trade name : ALEXIT BR10H0-BladeRep Hardener 10 90Q2 schwarz /

black

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

: Mankiewicz Gebr. & Co. Company

(GmbH & Co. KG)

Georg-Wilhelm-Straße 189

21107 Hamburg

Telephone +4940751030 Telefax +494075103375 E-mail address sdb info@umco.de

1.4 Emergency telephone number

+49 (0) 551 / 19240 (Toxic agent information centre North / NORD)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

H332: Harmful if inhaled. Acute toxicity, Category 4

H317: May cause an allergic skin reaction. Skin sensitisation, Category 1

Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





Signal word Warning

Hazard statements H317 May cause an allergic skin reaction.

> H332 Harmful if inhaled.

Toxic to aquatic life with long lasting effects. H411

according to Regulation (EC) No. 1907/2006



Revision Date 11.08.2017 Print Date 11.08.2017 Version 1

Commercial Product Name: ALEXIT BR10H0-BladeRep Hardener 10

Quality No.: 4459A90Q20000

Precautionary statements Prevention:

> P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/

P273 Avoid release to the environment.

P280 Wear protective gloves.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and

keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

If skin irritation or rash occurs: Get medical P333 + P313

advice/ attention.

P362 + P364 Take off contaminated clothing and wash it

before reuse.

Hazardous components which must be listed on the label:

1809331-98-3 aliphatic polyisocyanate

164250-92-4 2-Oxepanone, polymer with 1,6-diisocyanatohexane and 1,6-hexanediol

28182-81-2 Hexamethylene diisocyanate, oligomers

822-06-0 hexamethylene-di-isocvanate

Additional Labelling:

Contains isocyanates. May produce an allergic reaction.

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 [%]
aliphatic polyisocyanate 1809331-98-3	Acute Tox. 4; H332 Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 40 - <= 100
2-Oxepanone, polymer with 1,6-diisocyanatohexane and 1,6-hexanediol 164250-92-4	Skin Sens. 1; H317	>= 25 - < 40
Hexamethylene diisocyanate,	Acute Tox. 3; H331	>= 5 - < 12,5

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 Bank Name
 Ort
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 BLZ
 BIC
 IBAN
 Sitz/Registergericht Hamburg: HRA 42442
 Bureau Verbrieben

 Deutsche Bank Hypovereinsbank Hypovereinsbank Hypovereinsbank Postbank
 Hamburg 373205
 200 700 00
 DEUTDEHHXXX
 DE38 2007 0000 0600 2273 00
 Persönlich haftende Gesellschafterin: Grau Geber Beteiligungs-GmbH
 Gerau Geber Beteiligungs-GmbH
 ISO 9001, TS 16949, Geschäftsführender Gesellschafter: Michael O. Grau
 TS 16949, Geschäftsführender Gesellschafter: Michael O. Grau
 N 9100



according to Regulation (EC) No. 1907/2006



Revision Date 11.08.2017 Print Date 11.08.2017 Version 1

Commercial Product Name: ALEXIT BR10H0-BladeRep Hardener 10 Quality No.: 4459A90Q20000

oligomers 28182-81-2 01-2119488177-26	Skin Sens. 1; H317 STOT SE 3; H335	
hexamethylene-di-isocyanate 822-06-0 212-485-8 01-2119457571-37 Note 2	Acute Tox. 3; H331 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335 Resp. Sens. 1; H334	>= 0,1 - < 0,25

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

medica lattention.

Never give anything by mouth to an unconscious person.

If inhaled Remove to fresh air, keep patient warm and at rest.

Irregular breathing/no breathing: artificial respiration.

If unconscious place in recovery position and seek medical advice.

In case of skin contact Take off all contaminated clothing immediately.

Wash skin thoroughly with soap and water or use recognised skin

cleanser.

Do NOT use solvents or thinners!

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 : High volume water jet

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 Bureu Verbreiter

 Deutsche Bank
 Hamburg
 60022730
 200 700 00
 DEUTDEHHXXX
 DE58 2007 0000 0600 2273 00
 Persörlich haftende Gesellschafterin:
 Certification

 HypoVereinsbahk
 Hamburg
 59273300
 200 300 00
 HYVEDEMM300
 DE34 2003 0000 0059 2733 00
 Grau Geber. Beteiligungs-GmbH
 IS 16949, Geschäftsführender Gesellschafter:
 TS 16949, Geschäftsführender Gesellschafter:
 EN 9100



according to Regulation (EC) No. 1907/2006



Commercial Product Name: ALEXIT BR10H0-BladeRep Hardener 10

Quality No.: 4459A90Q20000

Revision Date 11.08.2017 Print Date 11.08.2017

Version 1

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!!

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Exclude sources of ignition and ventilate the area.

Do not inhale vapours.

Refer to protective measures listed in sections 7 and 8.

Immediately clean contaminated areas with following substances:

Water 45 Vol.% Ethanol or Isopropyl Alcohol 50 Vol.%

Ammonia solution (density=0,88) 5 Vol.%

Alternative applicable to that (not flammable):

Sodium Carbonate 5 Vol.% Water 95 Vol.%

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. 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 containment 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

according to Regulation (EC) No. 1907/2006



Revision Date 11.08.2017 Print Date 11.08.2017 Version 1

Commercial Product Name: ALEXIT BR10H0-BladeRep Hardener 10 Quality No.: 4459A90Q20000

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!

Comply with the health and safety at work laws.

Smoking, eating and drinking should be prohibited in the application

Advice on protection against fire

and explosion

Preparation may charge electrostatically: always use earthing leads

whentransferring from one container to another.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas

and containers

: 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

conditions

Always keep in containers of same material as the original one. See 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!!

Advice on common storage

Keep away from oxidizing agents and strongly acid or alkaline

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	Ceiling Limit Value	Update	
hexamethylene-di-isocyanate					
822-06-0	List of approved workplace exposure limits (WELs) / EH40	0,02 mg/m3		December 2011	
Further information:	Sen				

8.2 Exposure controls

Engineering measures

Provide adequate ventilation. Where reasonably practicable this shoul 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

according to Regulation (EC) No. 1907/2006



Revision Date 11.08.2017 Print Date 11.08.2017

Commercial Product Name: ALEXIT BR10H0-BladeRep Hardener 10 Quality No.: 4459A90Q20000

Version 1

Eye protection : Wear safety goggles to protect against splashes.

Hand protection Remarks

: Adhere to the professional organisation rule "Use of protective gloves". Appropriate chemicals resistant glove tested in compliance with EN 374.

Recommendation for protection against components generally found in the products:

For short-term contact (i.e. splash protection):

Appropriate material: nitrile rubber, Neoprene

Material thickness: > 0.4 mmBreakthrough 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 Clothing as usual in the chemical industry. Skin should be washed

after contact.

By spraying: air-fed respirator. Respiratory protection

By other operations than spraying: in well ventilated areas, air-fed respirators could be replaced by a combination of charcoal filter

andparticulate filter mask

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 liauid

Colour according product name

Odour characteristic Boiling point/boiling range ca. 120 °C

Flash point : Not applicable

: ca. 100 hPa (50 °C) Vapour pressure

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ISO 9001



according to Regulation (EC) No. 1907/2006



Revision Date 11.08.2017 Print Date 11.08.2017 Version 1

Commercial Product Name: ALEXIT BR10H0-BladeRep Hardener 10

Quality No.: 4459A90Q20000

Density : ca. 1,1 g/cm3 (20 °C)

Water solubility : insoluble

Viscosity

: > 151 s Flow time

> Cross section: 4 mm Method: DIN 53211

> 101 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.

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.

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.

10.6 Hazardous decomposition products

Hazardous decomposition : In a fire, hazardous decomposition products, such as smoke, carbon

monoxide, carbon dioxiode, oxides of nitrogen, hydrogen cyanide, monomers of isocyanates, amines and alcohols may be produced.

products

according to Regulation (EC) No. 1907/2006



Revision Date 11.08.2017 Print Date 11.08.2017 Version 1

Commercial Product Name: ALEXIT BR10H0-BladeRep Hardener 10

Quality No.: 4459A90Q20000

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

: Acute toxicity estimate : 1,95 mg/l Acute inhalation toxicity

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Assessment: The substance/mixture is not toxic on inhalation as

defined by dangerous goods regulations.

Components:

aliphatic polyisocyanate, 1809331-98-3:

Acute inhalation toxicity : LC50 (Rat): 1,5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Hexamethylene diisocyanate, oligomers, 28182-81-2:

LC50 (Rat): 0,5 mg/l Acute inhalation toxicity

Exposure time: 4 h

Test atmosphere: dust/mist Method: Expert judgement

Components:

Hexamethylene diisocyanate, oligomers, 28182-81-2:

Exposure routes: Skin contact

Species: Guinea pig

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 406

Components:

Hexamethylene diisocyanate, oligomers, 28182-81-2:

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., Based on the properties of the isocyanate components and considering toxicological data on similar 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., The liquid splashed in the eyes may cause irritation and reversible damage.

according to Regulation (EC) No. 1907/2006



Revision Date 11.08.2017 Print Date 11.08.2017 Version 1

Commercial Product Name: ALEXIT BR10H0-BladeRep Hardener 10

Quality No.: 4459A90Q20000

SECTION 12: Ecological information

12.1 Toxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : There are no data available on the preparation itself.

12.2 Persistence and degradability

Product:

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 assessment

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 : Contaminated packaging should be emptied as far as possible and

after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed off in

agreement with the regional waste disposal company.

Waste key for the unused

product

: 080111 waste paint and varnish containing organic solvents or other

dangerous substances

according to Regulation (EC) No. 1907/2006



Revision Date 11.08.2017 Print Date 11.08.2017 Version 1

Commercial Product Name: ALEXIT BR10H0-BladeRep Hardener 10

Quality No.: 4459A90Q20000

SECTION 14: Transport information

14.1 UN number

ADR : UN 3082 **IMDG** : UN 3082 IATA : UN 3082

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(aliphatic polyisocyanate)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(aliphatic polyisocyanate)

IATA : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(aliphatic polyisocyanate)

14.3 Transport hazard class(es)

ADR : 9 **IMDG** 9 **IATA** : 9

14.4 Packing group

ADR

Packing group : 111 Classification Code M6 Hazard Identification Number 90 Labels : 9 Tunnel restriction code : (D/E)

IMDG

III Packing group Labels : 9

EmS Code <u>F-A</u>, <u>S-F</u>

IATA

Packing instruction (cargo : 964

aircraft)

Packing instruction (passenger : 964

aircraft)

Packing group : 111

Labels Miscellaneous

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

IMDG

Marine pollutant : yes(aliphatic polyisocyanate)

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according to Regulation (EC) No. 1907/2006



Revision Date 11.08.2017 Print Date 11.08.2017 Version 1

Commercial Product Name: ALEXIT BR10H0-BladeRep Hardener 10 Quality No.: 4459A90Q20000

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 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)

Not applicable

Other regulations The information given in this material safety data sheet does not

release the user from its duty of risk assessment and control in the

work place defined in other health and safety law.

Adhere to the national sanitary and occupational safety regulations

when using this product.

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

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H331 Toxic if inhaled. Harmful if inhaled. H332

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

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

Acute Tox. Acute toxicity

Aquatic Chronic Chronic aquatic toxicity

Eye Irrit. Eye irritation

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

Further information

Note 2 The concentration of isocyanate stated is the percentage by weight of the free

monomer calculated with reference to the total weight of the mixture.

Further information

Other information : This safety datasheet complies with the requirements of regulation

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

according to Regulation (EC) No. 1907/2006



Revision Date 11.08.2017 Print Date 11.08.2017 Version 1

Commercial Product Name: ALEXIT BR10H0-BladeRep Hardener 10 Quality No.: 4459A90Q20000

Department issuing safety data sheet

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Telefon: +49 (0)40 / 79 02 36 300 Fax: +49 (0)40 / 79 02 36 357 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.