

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Commercial Product Name: ALEXIT BR1298-BladeRep Topcoat 12
Quality No.: 547439018W000
consisting of the components:
Commercial Product Name: ALEXIT BR1298-BladeRep Topcoat 12 / Quality No.:
471439018W000
Commercial Product Name: ALEXIT BR12H0-BladeRep Hardener 12 / Quality No.:
4053D00000000

Revision Date 14.04.2014
Print Date 14.04.2014
Version 1

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

1.1 Product identifier

Trade name : ALEXIT BR1298-BladeRep Topcoat 12 RAL 9018 papyrusweiß /
papyrus white stumpfmatt

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

Use of the Substance/Mixture : Industrial serial painting

1.3 Details of the supplier of the safety data sheet

Company : Mankiewicz Resins
Georg-Wilhelm-Straße 189
DE-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)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Flammable	R10: Flammable. R67: Vapours may cause drowsiness and dizziness.
Dangerous for the environment	R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Supplemental Hazard Statements : EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements : **Prevention:**
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.
P273 Avoid release to the environment.
Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P331 Do NOT induce vomiting.
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:

123-86-4	n-butyl acetate
	Hydrocarbons, C9, aromatics
64742-95-6	low boiling point naphtha - unspecified

Additional Labelling:

Contains: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Mix a-3-(3-(2H-Benzotriazol-2-yl)-5-t-butyl-4-hydroxyphenyl)propionyl-o-hydroxypoly(oxyethylene)...and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
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.



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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 (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Hydrocarbons, C9, aromatics 918-668-5 01-2119455851-35	R10 Xi; R37 N; R51/53 R66 R67 Xn; R65	Flam. Liq. 3; H226 STOT SE 3; H335, H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 5 - < 12,5
low boiling point naphtha - unspecified 64742-95-6 265-199-0 01-2119455851-35 Note H (Table 3.1), Note P	R10 Xn; R65 Xi; R37 N; R51/53 R66 R67	Flam. Liq. 3; H226 STOT SE 3; H335, H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 5 - < 12,5
xylene 1330-20-7 215-535-7 01-2119488216-32 Note C	R10 Xn; R20/21 Xi; R38	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315	>= 1 - < 5
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate 41556-26-7 255-437-1	Xi; R43 N; R50/53	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 0,5
Mix a-3-(3-(2H-Benzotriazol-2-yl)-5-t- butyl-4-hydroxyphenyl)propionyl-o- hydroxypoly(oxyethylene)...	Xi; R43 N; R51/53	Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 0,25 - < 0,5
methyl 1,2,2,6,6-pentamethyl-4- piperidyl sebacate 82919-37-7 280-060-4	R43 N; R50/53	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0,25
Substances with a workplace exposure limit :			
n-butyl acetate	R10	Flam. Liq. 3; H226	>= 5 - < 12,5

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Fax: +49 (0) 40 / 75 10 34 88

HypoVereinsbank Hamburg
Kto.-Nr.: 59201624, BLZ: 200 300 00
BIC: HYVEDE33HAN
IBAN: DE39 2003 0000 0059 2016 24

Sitz/Registergericht Hamburg: HRA 93491
Persönlich haftende Gesellschafterin:
Mankiewicz Resins Verwaltungsgesellschaft mbH, Hamburg
Sitz/Registergericht Hamburg: HRB 70162
Geschäftsführender Gesellschafter: Michael O. Grau

Mankiewicz:
ISO 9001:
TS 16949,
EN 9100,
ISO 14001



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123-86-4 204-658-1 01-2119485493-29	R66 R67	STOT SE 3; H336	
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For explanation of abbreviations see section 16.

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 medical attention.
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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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.

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 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

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.

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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 when transferring 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 and containers : Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Keep container tightly closed. Never use pressure to empty: container is not 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.

Advice on common storage : Keep away from oxidising 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
n-butyl acetate				
123-86-4	Occupational Exposure Standards (OESs) / EH40	500 ml/m ³ 1.810 mg/m ³		01.09.2003
n-butyl acetate				
123-86-4	2000/39/EC	500 ml/m ³ 1.210 mg/m ³		08.06.2000
n-butyl acetate				
123-86-4	Occupational Exposure Standards (OESs) / EH40	150 ml/m ³ 724 mg/m ³		01.09.2003

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xylene				
1330-20-7	Occupational Exposure Standards (OESs) / EH40	50 ml/m3 220 mg/m3		01.09.2003
Further information:	Sk			
xylene				
1330-20-7	2000/39/EC	50 ml/m3 221 mg/m3		08.06.2000
Further information:	Skin			

8.2 Exposure controls

Engineering measures

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

: 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 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 should be washed after contact.

Respiratory protection : If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Use half-mask model with cartridge or air-fed. Dry grinding, torch cutting and/or welding



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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	: liquid
Colour	: according product name
Odour	: characteristic
Flash point	: 34 °C Method: ISO 2719
Upper explosion limit	: 10 %(V)
Lower explosion limit	: 1 %(V)
Vapour pressure	: ca. 100 hPa (50 °C)
Density	: ca. 1,4 g/cm ³ (20 °C)
Water solubility	: insoluble
Auto-ignition temperature	: > 400 °C
Viscosity	
Flow time	: > 150 s Cross section: 4 mm Method: DIN 53211

9.2 Other information

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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 products

Hazardous decomposition products : When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute inhalation toxicity : Acute toxicity estimate : > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 2.000 mg/kg
Method: Calculation method

Components:

xylene, 1330-20-7 :

Acute oral toxicity : LD50 (rat): 4.300 mg/kg



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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.

Remarks: The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC).

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.



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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 |

SECTION 14: Transport information

14.1 UN number

- | | | |
|------|---|---------|
| ADR | : | UN 1263 |
| IMDG | : | UN 1263 |
| IATA | : | UN 1263 |

14.2 UN proper shipping name

- | | | |
|------|---|-------|
| ADR | : | PAINT |
| IMDG | : | PAINT |
| IATA | : | PAINT |

14.3 Transport hazard class(es)

- | | | |
|------|---|---|
| ADR | : | 3 |
| IMDG | : | 3 |
| IATA | : | 3 |

14.4 Packing group

- | | | |
|------------------------------|---|------------------------|
| ADR | : | |
| Packing group | : | III |
| Classification Code | : | F1 |
| Hazard Identification Number | : | 30 |
| Labels | : | 3 |
| Tunnel restriction code | : | (D/E) |
| Special Provisions | : | Special Provision 640E |



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IMDG

Packing group : III
Labels : 3
EmS Code : F-E, S-E

IATA

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 : 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 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 1999/13/EC : VOC content excluding water 27 %
386 g/l

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.



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SECTION 16: Other information

Full text of R-Phrases

R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

Full text of H-Statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Asp. Tox.	Aspiration hazard
Flam. Liq.	Flammable liquids
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.

Further information

Note C	Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
Note H (Table 3.1)	The classification and labelling shown for this substance applies to the hazardous property(ies) indicated by the hazard statement(s) in combination with the hazard class(es) and category(ies) shown. The requirements of Article 4 for manufacturers, importers or downstream users of this substance apply to all other hazard classes and categories. For hazard classes where the route of exposure or the nature of the effects leads to a differentiation of the classification of the hazard class, the manufacturer, importer or downstream user is required to consider the routes of exposure or the nature of the effects not already considered. The final label shall follow the requirements of Article 17 and of section 1.2 of Annex I.
Note P	The classification as a carcinogen or mutagen need not apply if it can be shown

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21107 Hamburg (Wilhelmsburg)
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HypoVereinsbank Hamburg
Kto.-Nr.: 53201624, BLZ: 200 300 00
BIC: HYVEDE33HAN
IBAN: DE39 2003 0000 0059 2016 24

Sitz/Registergericht Hamburg: HRA 93491
Persönlich haftende Gesellschafterin:
Mankiewicz Resins Verwaltungsgesellschaft mbH, Hamburg
Sitz/Registergericht Hamburg: HRB 70162
Geschäftsführender Gesellschafter: Michael O. Grau

Mankiewicz:
ISO 9001:
TS 16949,
EN 9100,
ISO 14001



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Commercial Product Name: ALEXIT BR1298-BladeRep Topcoat 12
Quality No.: 547439018W000
consisting of the components:
Commercial Product Name: ALEXIT BR1298-BladeRep Topcoat 12 / Quality No.:
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Commercial Product Name: ALEXIT BR12H0-BladeRep Hardener 12 / Quality No.:
4053D00000000

Revision Date 14.04.2014
Print Date 14.04.2014
Version 1

that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 (Table 3.1) or the S-phrases (2-)23-24-62 (Table 3.2) shall apply. This note applies only to certain complex oil-derived substances in Part 3.

Other information : This safety datasheet complies with the requirements of regulation (EC) No 1907/2006(453/2010).

Department issuing safety data sheet

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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 Substance/Mixture : Industrial serial painting

1.3 Details of the supplier of the safety data sheet

Company : Mankiewicz Resins
Georg-Wilhelm-Straße 189
DE-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)



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Commercial Product Name: ALEXIT BR1298-BladeRep Topcoat 12
Quality No.: 547439018W000
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4053D00000000

Revision Date 14.04.2014
Print Date 14.04.2014
Version 1

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.

Classification (67/548/EEC, 1999/45/EC)

Flammable

R10: Flammable.

Sensitising

R43: May cause sensitisation by skin contact.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

: Warning

Hazard statements

: H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.

Supplemental Hazard Statements

: EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements

: **Prevention:**
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.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all



SAFETY DATA SHEET

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4053D00000000

Revision Date 14.04.2014
Print Date 14.04.2014
Version 1

P304 + P340 + P312 contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P362 + P364 Take off contaminated clothing and wash it before reuse.
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 aliphatic polyisocyanate
123-86-4 n-butyl acetate
822-06-0 hexamethylene-di-isocyanate

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 (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
aliphatic polyisocyanate 28182-81-2 500-060-2	R43	Skin Sens. 1; H317	>= 40 - <= 100
hexamethylene-di-isocyanate 822-06-0 212-485-8 01-2119457571-37 Note 2	T; R23 Xi; R36/37/38 R42/43	Acute Tox. 3; H331 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 limit :

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SAFETY DATA SHEET

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Commercial Product Name: ALEXIT BR1298-BladeRep Topcoat 12

Revision Date 14.04.2014

Quality No.: 547439018W000

Print Date 14.04.2014

consisting of the components:

Version 1

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Commercial Product Name: ALEXIT BR12H0-BladeRep Hardener 12 / Quality No.: 4053D00000000

n-butyl acetate 123-86-4 204-658-1 01-2119485493-29	R10 R66 R67	Flam. Liq. 3; H226 STOT SE 3; H336	>= 25 - < 40
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For explanation of abbreviations see section 16.

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 medical attention.
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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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Commercial Product Name: ALEXIT BR12H0-BladeRep Hardener 12 / Quality No.:
4053D00000000

Revision Date 14.04.2014
Print Date 14.04.2014
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.



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Commercial Product Name: ALEXIT BR1298-BladeRep Topcoat 12
Quality No.: 547439018W000
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Commercial Product Name: ALEXIT BR12H0-BladeRep Hardener 12 / Quality No.:
4053D00000000

Revision Date 14.04.2014
Print Date 14.04.2014
Version 1

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.
- 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 when transferring 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 and containers : Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Keep container tightly closed. Never use pressure to empty: container is not 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 humidity or 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 oxidising 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.



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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Quality No.: 547439018W000
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471439018W000
Commercial Product Name: ALEXIT BR12H0-BladeRep Hardener 12 / Quality No.:
4053D00000000

Revision Date 14.04.2014
Print Date 14.04.2014
Version 1

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	Occupational Exposure Standards (OESs) / EH40	500 ml/m3 1.810 mg/m3		01.09.2003
n-butyl acetate				
123-86-4	2000/39/EC	500 ml/m3 1.210 mg/m3		08.06.2000
n-butyl acetate				
123-86-4	Occupational Exposure Standards (OESs) / EH40	150 ml/m3 724 mg/m3		01.09.2003

8.2 Exposure controls

Engineering measures

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 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

: 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 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



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Commercial Product Name: ALEXIT BR1298-BladeRep Topcoat 12

Revision Date 14.04.2014

Quality No.: 547439018W000

Print Date 14.04.2014

consisting of the components:

Version 1

Commercial Product Name: ALEXIT BR1298-BladeRep Topcoat 12 / Quality No.: 471439018W000

Commercial Product Name: ALEXIT BR12H0-BladeRep Hardener 12 / Quality No.: 4053D00000000

	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 offhigh temperature resistant synthetic fiber. All parts of the body shouldbe washed after contact.
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 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	: liquid
Colour	: according product name
Odour	: characteristic
Boiling point/boiling range	: ca. 120 °C
Flash point	: 35 °C Method: ISO 2719
Upper explosion limit	: 10,0 %(V)
Lower explosion limit	: 1,0 %(V)
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



SAFETY DATA SHEET

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Commercial Product Name: ALEXIT BR1298-BladeRep Topcoat 12 / Quality No.:
471439018W000
Commercial Product Name: ALEXIT BR12H0-BladeRep Hardener 12 / Quality No.:
4053D00000000

Revision Date 14.04.2014
Print Date 14.04.2014
Version 1

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.
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 products : In a fire, hazardous decomposition products, such as smoke, carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide, monomers of isocyanates, amines and alcohols may be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute inhalation toxicity : Acute toxicity estimate : > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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Quality No.: 547439018W000

Revision Date 14.04.2014

Print Date 14.04.2014

Version 1

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Commercial Product Name: ALEXIT BR1298-BladeRep Topcoat 12 / Quality No.:
471439018W000

Commercial Product Name: ALEXIT BR12H0-BladeRep Hardener 12 / Quality No.:
4053D00000000

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 preparations: This preparation may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and a tightness 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.

Remarks: The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC).

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..



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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471439018W000
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4053D00000000

Revision Date 14.04.2014
Print Date 14.04.2014
Version 1

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

SECTION 14: Transport information

14.1 UN number

- ADR : UN 1263
- IMDG : UN 1263
- IATA : UN 1263

14.2 UN proper shipping name

- ADR : PAINT RELATED MATERIAL
- IMDG : PAINT RELATED MATERIAL
- IATA : PAINT RELATED MATERIAL

14.3 Transport hazard class(es)

- ADR : 3
- IMDG : 3
- IATA : 3

14.4 Packing group

- ADR
- Packing group : III

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SAFETY DATA SHEET

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471439018W000
Commercial Product Name: ALEXIT BR12H0-BladeRep Hardener 12 / Quality No.:
4053D00000000

Revision Date 14.04.2014
Print Date 14.04.2014
Version 1

Classification Code : F1
Hazard Identification Number : 30
Labels : 3
Tunnel restriction code : (D/E)
Special Provisions : Special Provision 640E

IMDG

Packing group : III
Labels : 3
EmS Code : F-E, S-E

IATA

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 : 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 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 1999/13/EC : VOC content excluding water 25 %
265 g/l

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.

SAFETY DATA SHEET

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471439018W000
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4053D00000000

Revision Date 14.04.2014
Print Date 14.04.2014
Version 1

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

Full text of R-Phrases

R10	Flammable.
R23	Toxic by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R42/43	May cause sensitisation by inhalation and skin contact.
R43	May cause sensitisation by skin contact.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

Full text of H-Statements

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
Acute Tox.	Acute toxicity

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.
Other information	: This safety datasheet complies with the requirements of regulation (EC) No 1907/2006(453/2010).

Department issuing safety data sheet

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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Commercial Product Name: ALEXIT BR1298-BladeRep Topcoat 12

Revision Date 14.04.2014

Quality No.: 547439018W000

Print Date 14.04.2014

consisting of the components:

Version 1

Commercial Product Name: ALEXIT BR1298-BladeRep Topcoat 12 / Quality No.:
471439018W000

Commercial Product Name: ALEXIT BR12H0-BladeRep Hardener 12 / Quality No.:
4053D00000000