

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Commercial Product Name: ALEXSEAL C2075-Fairing Compound
202 Conv
Quality No.: 1551578403000

Revision Date 28.10.2014
Print Date 05.02.2015
Version 2

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

1.1 Product identifier

Trade name : ALEXSEAL C2075-Fairing Compound 202 Conv 7840 Dark Gray

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 Gebr. & Co.
(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)

Acute toxicity, Category 4 H302: Harmful if swallowed.
Skin corrosion, Category 1B H314: Causes severe skin burns and eye damage.
Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.
Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting effects.

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

Corrosive R34: Causes burns.
Harmful R20/22: Harmful by inhalation and if swallowed.
Sensitising R43: May cause sensitisation by skin contact.
Dangerous for the environment R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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Bank Name	Ort	Kto.-Nr.	BLZ	BIC	IBAN
Deutsche Bank	Hamburg	600227300	200 700 00	DEUTDE33HAN	DE58 2007 0000 0600 2273 00
HypoVereinsbank	Hamburg	59273300	200 300 00	HYVEDE33HAN	DE34 2003 0000 0059 2733 00
Postbank	Hamburg	373205	200 100 20	PBNKDE33HAN	DE85 2001 0020 0000 3732 05

Sitz/Registriergericht Hamburg: HRA 42442
Büro: Personalhaftende Gesellschafterin:
Grau Gebr. Beteiligungs-GmbH
Sitz/Registriergericht Hamburg: HRB 17189
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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/
spray.
P280 Wear protective gloves/ protective clothing/ eye
protection/ face protection.

Response:
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all
contaminated clothing. Rinse skin with
water/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and
keep comfortable for breathing. Immediately call
a POISON CENTER or doctor/ physician.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for
several minutes. Remove contact lenses, if
present and easy to do. Continue rinsing.
P362 + P364 Take off contaminated clothing and wash it
before reuse.

Hazardous components which must be listed on the label:

100-51-6	benzyl alcohol
135108-88-2	POLY(METHYLENOCYCLOHEXYLAMINE)
112-57-2	3,6,9-triazaundecamethylenediamine
1477-55-0	m-phenylenebis(methylamine)

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 product may be a skin sensitizer. It may also be a severe skin irritant.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Hardener based on polyamine / amino adduct

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Hazardous components

Chemical Name CAS-No. EC-No. Registration number Remarks	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
benzyl alcohol 100-51-6 202-859-9	Xn; R20/22	Acute Tox. 4; H302 Acute Tox. 4; H332	>= 20 - < 25
POLY(METHYLENOCYCLOHEXYLAMINE) 135108-88-2	C; R34 Xn; R22 R43	Acute Tox. 4; H302 Skin Corr. 1B; H314 Skin Sens. 1; H317	>= 20 - < 25
3,6,9-triazaundecamethylenediamine 112-57-2 203-986-2	Xn; R21/22 C; R34 R43 N; R51/53	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 5 - < 10
m-phenylenebis(methylamine) 1477-55-0 216-032-5	Xn; R20/22 C; R34 R52/53	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1B; H314 Aquatic Chronic 3; H412	>= 1 - < 5

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.

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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

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.

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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 : Avoid contact with the skin and the eyes.
In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits. Smoking, eating and drinking should be prohibited in the application area.
- Advice on protection against fire and explosion : Keep away from ignition sources and provide for good ventilation.

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 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

Contains no substances with occupational exposure limit values.

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

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- Eye protection : Wear safety goggles to protect against solvent splashes.
- Hand protection : Adhere to the professional organisation rule "Use of protective gloves". Appropriate chemicals resistant glove tested in compliance with EN 374.
- Remarks : 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 offhigh 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 they must use appropriate, certified respirators:Use half-mask model with cartridge or air-fed.
- 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : Pasty
Colour : according product name
Odour : amine-like
Boiling point/boiling range : 205 °C
- Flash point : 96 °C
Method: ISO 2719
- Upper explosion limit : 10,0 %(V)

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Lower explosion limit : 1,0 %(V)
Vapour pressure : 0,1 hPa (20 °C)
Density : 0,68 g/cm3 (20 °C)
Water solubility : insoluble
Auto-ignition temperature : > 400 °C
Viscosity
Flow time : > 90 s
Cross section: 4 mm
Method: DIN 53211

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.

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.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate : 800,51 mg/kg
Method: Calculation method

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

Further information

Product:

Remarks: Corrosive effect of product in contact with skin, eyes and mucous membranes., Risk of serious damage to eyes.

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..

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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 3259
- IMDG : UN 3259
- IATA : UN 3259

14.2 UN proper shipping name

- ADR : POLYAMINES, SOLID, CORROSIVE, N.O.S.
(POLY(METHYLENOCYCLOHEXYLAMINE), m-PHENYLENBIS(METHYLAMINE))
(POLY(METHYLENOCYCLOHEXYLAMINE), 3,6,9-TRIAZAUNDECAMETHYLENEDIAMINE)
- IMDG : POLYAMINES, SOLID, CORROSIVE, N.O.S.
(POLY(METHYLENOCYCLOHEXYLAMINE), m-PHENYLENBIS(METHYLAMINE))

(POLY(METHYLENOCYCLOHEXYLAMINE), 3,6,9-TRIAZAUNDECAMETHYLENEDIAMINE)
- IATA : Polyamines, solid, corrosive, n.o.s.
(POLY(METHYLENOCYCLOHEXYLAMINE), m-PHENYLENBIS(METHYLAMINE))
(POLY(METHYLENOCYCLOHEXYLAMINE), 3,6,9-TRIAZAUNDECAMETHYLENEDIAMINE)

14.3 Transport hazard class(es)

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ADR : 8
IMDG : 8
IATA : 8

14.4 Packing group

ADR
Packing group : III
Classification Code : C8
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)

IMDG
Packing group : III
Labels : 8
EmS Code : F-A, S-B

IATA
Packing instruction (cargo aircraft) : 864
Packing instruction (passenger aircraft) : 860
Packing group : III
Labels : Corrosives

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 : not applicable

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

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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 R-Phrases

R20/22	Harmful by inhalation and if swallowed.
R21/22	Harmful in contact with skin and if swallowed.
R22	Harmful if swallowed.
R34	Causes burns.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of H-Statements

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Acute Tox.	Acute toxicity
Aquatic Chronic	Chronic aquatic toxicity
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
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



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202 Conv
Quality No.: 1551578403000

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HypoVereinsbank	Hamburg	59273300	200 300 00	HYVEDE33HAN	DE34 2003 0000 0059 2733 00
Postbank	Hamburg	373205	200 100 20	PBNKDE33HAN	DE85 2001 0020 0000 3732 05

Sitz/Registergericht Hamburg: HRA 42442
Persönlich haftende Gesellschafterin:
Grau Gebr. Beteiligungs-GmbH
Sitz/Registergericht Hamburg: HRB 17189
Geschäftsführender Gesellschafter:
Michael O. Grau

Bureau Veritas
Certification:
ISO 9001,
TS 16949,
EN 9100

