

SAFETY DATA SHEET ACC. TO REG. (EC) 1907/2006

VERSION V 1.07 OF 09/09/2019 REPLACES V 1.06

Product / Trade name:	DIFA ACR 1051
Revision date:	09/09/2019
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SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier **DIFA ACR 1051**

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

Identified uses Coating material for roofing tiles

1.3 Supplier Bramac Dachsysteme International GmbH
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Competent person Mr. DI (FH) Martin Göbl
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1.4 Emergency telephone number Please contact the regional poison center or emergency call.
Austrian toxicity information center Vienna:
+43 1 406 43 43
Available 24 hours

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

- **According to regulation (EC) No. 1272/2008**

Skin sensitization category 1

Hazardous to the aquatic environment – chronic hazard category 3

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

- According to regulation (EC) No. 1272/2008



Warning

H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container in a safe way.

- Hazard components for labelling**

polypropylene glycol alkyl phenyl ether
 2-Methyl-2H-isothiazol-3-one
 mixture of: 5-Chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1)

2.3 Other hazards

Skin irritation is possible if the product is glued with skin by drying.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

- Chemical characterization**

Water-based dispersion of a copolymer based on acrylic acid ester and styrene with pigments and filling material.

Solid content: 60 – 67 %

- Hazardous ingredients**

Chemical name	CAS # / EC # / Index #	%-w/w	Classification acc. to (EC) No. 1272/2008*	
polypropylene glycol alkyl phenyl ether	--- / --- / ---	< 1	Skin Sens. 1	H317
disodium dodecyl(sulphonatophenoxy)benzenesulphonate	28519-02-0 / 249-063-8 / ---	< 0.5	Acute Tox. 4 Eye Dam. 1 Aqu. chron. 2	H302 H318 H411
terbutryn	886-50-0 / 212-950-5 / ---	0.03	Acute Tox. 4 Skin Sens. 1 Aqu. acute 1	H302 H317 H400

			Aqu. chron. 1	H410
Mixture of: 5-Chloro-2-methyl-2H-isothiazol-3-one [CAS: 26172-55-4, EC: 247-500-7] and 2-Methyl-2H-isothiazol-3-one [CAS: 2682-20-4, EC: 220-239-6] (3:1)**	55965-84-9 / --- / 613-167-00-5	< 0.0015	Acute Tox. 3 Acute Tox. 2 Skin Corr. 1C Skin Sens. 1A Acute Tox. 2 Aqu. acute 1 Aqu. chron. 1	H301 H310 H314 H317 H330 H400 H410

* Full text of Hazard statements and hazard categories: see section 16.

** Substance with an occupational exposure limit value (see section 8)

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

Seek medical advice if symptoms occur.
Never give anything by mouth to an unconscious person or a person with cramps.
Change contaminated, saturated clothing.

- In case of inhalation**

Provide fresh air. In case of problems, consult a physician.
If unconscious place in recovery position and seek medical advice.

- In case of skin contact**

After contact with skin, wash immediately with soap and plenty of water.
Change contaminated, saturated clothing – wash before reuse.
If symptoms occur, consult a physician.

- In case of eye contact**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult a physician.

- In case of ingestion**

Rinse mouth thoroughly with cold water. Avoid vomiting. If the patient is conscious, give one or two glasses of water to drink. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Depending on the condition of the patients, the doctor must assess the symptoms and the overall general condition.

SECTION 5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Product itself is not combustible – Use firefighting measures that suit the environment.

- Suitable extinguishing media**

CO₂, extinguishing powder, foam, water spray
Fight larger fires with water spray or alcohol-resistant foam.

- **Extinguishing media which must not be used for safety reasons**

Water jet

5.2 Special hazards arising from the substance or mixture

Fire may cause evolution of CO_x.

5.3 Advice for firefighters

Special protective equipment:

Wear a self-contained breathing apparatus and chemical protective clothing.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Restricted access to contaminated areas, until cleaning work is finished.

Wear personal protection equipment. Avoid contact with skin and eyes.

Provide adequate ventilation.

6.2 Environmental precautions

Do not allow to enter into sewerage system, surface water, ground water or drains.

In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

Smaller quantities: Absorb with liquid binding material (e.g. sand, kieselguhr, Universal binder, sawdust).

Wash away residue with plenty of water.

Larger quantities: pump off product

Treat the recovered material as prescribed in the section on waste disposal (section 13).

6.4 Reference to other sections

See protective measures under section 8 and disposal under section 13.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Provide adequate ventilation. Avoid contact with skin and eyes. Keep containers tightly closed.

Observe protective measures and safety instructions.

During longer storage periods, formation of carbon monoxide in small quantities is possible. To the best of our knowledge occupational exposure limit is not exceeded, if used as prescribed.

Therefore, it is only allowed to enter containers/tanks after proper and ensured ventilation according to national and international standards. In case of doubt perform a concentration measurement of carbon monoxide.

7.2 Conditions for safe storage, including any incompatibilities

- **Precautions against fire and explosion**

No special measures are necessary.

- **Requirements on storage and packaging/containers**

Protect from frost and heat.
Provide adequate ventilation
Keep container tightly closed.

- **Incompatibility with materials**

No data available.

- **Conditions of storage** Room temperature

7.3 Specific end use(s)

Coating material for roofing tiles

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Observe the member state specific regulations.

Austria: MAK (maximum workplace concentrations)-value acc. to GKV 2018 Annex 1

name	CAS#	MAK	TMW / KZW*		notes	Duration [min]
			[ppm]	[mg/m ³]		
Mixture of: 5-Chloro-2-methyl-2H-isothiazol-3-on [CAS: 26172-55-4, EC: 247-500-7] and 2-Methyl-2H-isothiazol-3-on [CAS: 2682-20-4, EC: 220-239-6] (3:1)	55965-84-9	MAK		0.05 / --	Sh, H	

*TMW Daily average value Sh Risk of skin sensitization
KZW Short time value H Risk of skin resorption

8.2 Exposure control

- **General protection and hygiene measures**

When handling with chemical substances observe usual precautionary measures.
Keep away from foods and drinks.
When using do not eat, drink, smoke.
Wash hands after working with product.
Avoid contact with skin and eyes. Avoid breathing vapours/aerosols.
Change contaminated clothes and wash before reuse.

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

- **Respiratory protection**

In normal cases not necessary.

- **Hand protection**

Wear protective gloves (Glove material e. g. chloroprene, nitril rubber, butyl rubber)

The selection of suitable gloves depends not only on the material, but also on other quality characteristics. Breakthrough times and swelling properties of the material must be taken into consideration.

- **Eye protection**

Protective goggles

- **Body protection**

Working clothes

- **Environmental exposure controls**

Do not allow to enter into sewerage system, surface water, ground water or drains.
In case of entry into waterways, soil or drains, inform the responsible authorities.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

• Physical state /Appearance	liquid	
• Colour	orange	
• Odour	typical, low odour	
• Odour threshold	No information available.	
• pH value (23 °C)	7.0 – 9.0	DIN ISO 976
• Melting point/range	water: 0 °C	
• Boiling point/range	water: 100 °C	
• Flash point	n. a.	
• Evaporation rate	No information available.	
• Flammability	Not auto-igniting	
• Upper/lower explosive limits	n. a.	
• Vapour pressure (20 °C)	Water 23.4 hPa (literature)	
• Density (20 °C)	1.2 – 1.5 g/cm ³	ISO 2811-1
• Solubility in water (20 °C)	Partially soluble	
• Partition coefficient: n-octanol/water	n. a.	
• Ignition temperature	No information available.	
• Decomposition temperature	No decomposition if correctly stored and handled.	
• Viscosity (23 °C)	Flow time 16 – 25 s	DIN 53211, 4 mm
• Explosive properties	Not explosive.	
• Oxidising properties	Not oxidising.	

9.2 Other information

• Miscibility with water	miscible
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- **Solid content** 60 – 67 % DIN EN ISO 3251
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SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions known if used and stored as prescribed.

10.2 Chemical stability

No decomposition if used and stored as prescribed.

10.3 Possibility of hazardous reactions

Formation of carbon monoxide is possible during longer periods of storage.

10.4 Conditions to avoid

Avoid extreme temperatures (frost and heat).

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

No decomposition if used as prescribed.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicological data for the product are not available.

- **LD₅₀-values of single components relevant for classification**

No data available.

- **Acute toxicity**

Based on available data classification criteria are not fulfilled.

- **Skin corrosion/irritation**

Based on available data classification criteria are not fulfilled.
Skin irritation is possible if the product is glued with skin by drying.

- **Serious eye damage/irritation**

Based on available data classification criteria are not fulfilled. Risk of adhesion!

- **Skin/Respiratory sensitisation**

Skin sensitization Category 1: May cause an allergic skin reaction.

- **Germ cell mutagenicity**

The product does not contain any ingredients in a concentration of equal or higher than 0.1 %, which are classified as mutagen.
Based on available data classification criteria are not fulfilled.

- **Cancerogenicity**

None of the substances in this product in a concentration of equal or higher than 0.1 % is listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).
Based on available data classification criteria are not fulfilled.

- **Reproductive toxicity**

The product does not contain any ingredients in a concentration of equal or higher than 0.1 %, which are classified as toxic for reproduction.
Based on available data classification criteria are not fulfilled.

- **Specific target organ toxicity – single exposure**

Based on available data classification criteria are not fulfilled.

- **Specific target organ toxicity – repeated exposure**

Based on available data classification criteria are not fulfilled.

- **Aspiration hazard**

Based on available data classification criteria are not fulfilled.

- **Other information**

The product was classified on the basis of the calculation procedure of the CLP- Regulation (EC) 1272/2008.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity

The dispersion, which is relevant for environmental hazards was tested.

- **Aquatic Toxicity dispersion** (without filling material and pigments) – manufacturer's data

Assesment of aquatic toxicity:
Acutely harmful to aquatic organisms.

Water plants:

EC50 (72 h) 26,6 mg/l (growth rate), *Desmodosmus subspicatus* (OECD-directive 201, static)
Nominal concentration

Micororganisms/Effect on activated sludge:

EC20 (0,5 h) > 100 mg/l, activated sludge, municipal (DIN EN ISO 8192-OECD 209-88/302/EWG,T.C)

With the appropriate introduction of low concentrations into biological wastewater treatment plants, trouble is not to be expected in the decomposition activity of activated sludge.

12.2 Persistence and degradability

dispersion (without filling material and pigments)

Assessment biodegradation and elimination (H₂O):

The product can be largely eradicated from water via abiotic processes, e.g. adsorption on activated sludge.

Information about elimination:

> 70 % DOC-reduction (OECD 302B; ISO 9888; 88/302/EWG, part C) Easily to be eliminated from water.

12.3 Bioaccumulative potential

The polymeric part is not bioavailable due to its structural properties. Accumulation in organisms is not expected.

12.4 Mobility in soil

No data available for this product.

12.5 Results of PBT and vPvB assessment

The product does not meet the criteria for PBT (persistent/bioaccumulative/toxic) or vPvB (very persistent/very bioaccumulative)

12.6 Other adverse effects

Do not allow to enter in ground water, waters or sewerage system.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Any disposal practice must be in compliance with all local and national laws and regulations. Customers are advised to check their local legislation governing the disposal of waste materials.

If this preparation becomes a waste, the final user must define and assign the appropriate European Waste Catalogue code. Use only authorized contractors.

Do not allow to enter in ground water, waters or sewerage system.

- **European waste catalogue**

07 02 13 – waste plastic

Notes: The European Waste Catalogue (EWC) classifies waste materials and categorises them according to what they are and how they were produced. This may cause other classifications. The final decision belongs to the last user.

- **Uncleaned packaging**

Recommendation: Completely emptied packages can be recycled by authorized contractors.

SECTION 14 TRANSPORT INFORMATION

No dangerous good in sense of the transport regulation for land, air and sea.

14.1 UN number

Not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Not applicable.

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

Not applicable.

SECTION 15 REGULATORY INFORMATION

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

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

The mixture was classified on the basis of the calculation procedure of the CLP- Regulation (EC) 1272/2008 (Annex 1).

national law:

Austria:

- Solvents Ordinance 2005 – BGBl II 398/2005.
Category A/c Wb; VOC-maximum content 40 g/l (2010).
Contains max. 10 g/l VOC.
- VbF – Regulation on combustible liquids (BGBl 1991/240)
Not a combustible liquid acc. to VbF.

Germany:

- Ordinance on Installations for the Handling of Substances Hazardous to water (AwSV) of 18. April 2017
WGK 1 (slightly hazardous to water)

15.2 Chemical safety assessment

Not performed for the mixture.

SECTION 16 OTHER INFORMATION

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

All materials may present unknown hazards and should be used with caution and only for identified uses described in section 1. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Any liability for damages during handling or contact with chemicals is excluded.

The mixture was classified on the basis of the calculation procedure of the CLP- Regulation (EC) 1272/2008 (Annex 1). The classification of ingredients is based on manufacturer's data, CLP Annex VI and additional information from hazardous substances data bank.

- **Relevante Hazard-Statements**

EUH071	Corrosive to the respiratory tract.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
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.
H412	Harmful to aquatic life with long lasting effects.

- **Relevant hazard categories**

Acute Tox. 3	Acute toxicity category 3
Acute Tox. 4	Acute toxicity category 4
Aqu. Acute 1	Hazardous to the aquatic environment – acute hazard category 1
Aqu. Chron. 1	Hazardous to the aquatic environment – chronic hazard category 1
Aqu. Chron. 2	Hazardous to the aquatic environment – chronic hazard category 2
Eye Dam. 1	Serious eye damage category 1
Skin Corr. 1B	Skin corrosive category 1B
Skin Sens. 1	Skin sensitization category 1
Skin Sens. 1A	Skin sensitization category 1A

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- **Abbreviations**
n. a. nicht applicable

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