

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Colormatic 2K Universal putty, beige

Print date: 09.04.2014

Product code: 160527-GHS-2014

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Colormatic 2K Universal putty, beige

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

@0202.B020302

1.3. Details of the supplier of the safety data sheet

Company name:	R&G Faserverbundwerkstoffe GmbH	
	Composite Technology	
Street:	Im Meißel 7 - 13	
Place:	D-71111 Waldenbuch	
Post-office box:	1145	
	D-71107 Waldenbuch	
Telephone:	+49-7157-530460	Telefax: +49-7157-530470
e-mail:	info@r-g.de	
Internet:	www.r-g.de	
Responsible Department:	Management	

1.4. Emergency telephone number:

Vergiftungs-Informations-Zentrale Freiburg
Tel: +49 (0)761 19240

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

R phrases:
Flammable.

GHS classification

Hazard categories:
Flammable liquid: Flam. Liq. 3
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2
Hazard Statements:
Flammable liquid and vapour.
Causes skin irritation.
Causes serious eye irritation.

2.2. Label elements

Signal word: Warning
Pictograms: GHS02-GHS07

**Hazard statements**

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
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	smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P321	Specific treatment (see General information on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P352	Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use Carbon dioxide (CO2). Water mist. Extinguishing powder. alcohol resistant foam to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to Dispose of waste according to applicable legislation..

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
202-851-5	styrene	10 - < 12,5 %
100-42-5	Xn - Harmful, Xi - Irritant R10-20-36/38	
601-026-00-0	Flam. Liq. 3, Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2; H226 H332 H319 H315	
231-784-4	barium sulphate	5 - < 10 %
7727-43-7		
01-2119491274-35		

Full text of R and H phrases: see Section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Provide fresh air.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water.

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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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Carbon dioxide (CO₂), Foam, Extinguishing powder.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Flammable Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

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

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special measures are necessary.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge. Vapours can form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Advice on storage compatibility

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

7.3. Specific end use(s)

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
7727-43-7	Barium sulphate, inhalable dust	-	10		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
100-42-5	Styrene	100	430		TWA (8 h)	WEL
		250	1080		STEL (15 min)	WEL

8.2. Exposure controls



Protective and hygiene measures

Take off contaminated clothing and wash before reuse. Wash hands before breaks and after work.
When using do not eat or drink.

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable gloves type: Butyl caoutchouc (butyl rubber)
Thickness of glove material: 0,4 mm

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: According to product specification
Odour: characteristic

pH-Value: not determined

Changes in the physical state

Melting point: not determined

Initial boiling point and boiling range: 145 °C

Flash point: 31 °C

Flammability

Test method

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Solid: not applicable

Gas: not applicable

Explosive properties

The product is not: Explosive.

Vapours can form explosive mixtures with air.

Lower explosion limits: 1,2 vol. %

Upper explosion limits: 8,9 vol. %

Auto-ignition temperature

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidizing.

Vapour pressure:
(at 20 °C) 6 hPaVapour pressure:
(at 50 °C) 34 hPaDensity (at 20 °C): 1,9 g/cm³

Water solubility: Immiscible

Solubility in other solvents

not determined

Partition coefficient: not determined

Flow time: < 60 4 DIN 53211

Vapour density: not determined

Evaporation rate: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity**10.1. Reactivity**

Flammable, Ignition hazard.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

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Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
100-42-5	styrene				
	oral	LD50	2650 mg/kg	Rat	GESTIS
	dermal	LD50	> 2000 mg/kg	Rat	OECD 402
	inhalative (4 h) vapour	LC50	12 mg/l	Rat	GESTIS
7727-43-7	barium sulphate				
	oral	LD50	> 5000 mg/kg	Rat	OECD 401

Additional information on tests

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

The product is not: @1301.B130029.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
100-42-5	styrene					
	Acute fish toxicity	LC50	10 mg/l	96 h	Pimephales promelas (fathead minnow)	OECD 203
	Acute algae toxicity	ErC50	6.3 mg/l	96 h	Pseudokirchneriella subcapitata	EPA OTS 797.1050
	Acute crustacea toxicity	EC50	4,7 mg/l	48 h	Daphnia magna	OECD 202
	crustacea toxicity	NOEC	1,01 mg/l	21 d	Daphnia magna	OECD 211
	Acute bacteria toxicity	(500 mg/l)		1 h	Activated sludge	OECD 209

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
100-42-5	styrene			
	OECD Guideline 302 C	100%	14	
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
100-42-5	styrene	3,05

BCF

CAS No	Chemical name	BCF	Species	Source
100-42-5	styrene	74		

12.4. Mobility in soil

The product has not been tested.

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12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN 3269
<u>14.2. UN proper shipping name:</u>	POLYESTER RESIN KIT
<u>14.3. Transport hazard class(es):</u>	3
<u>14.4. Packing group:</u>	III
Hazard label:	3



Classification code:	F3
Special Provisions:	236 340
Limited quantity:	5 L
Transport category:	3
Tunnel restriction code:	E

Other applicable information (land transport)

E0

Inland waterways transport (ADN)

<u>14.1. UN number:</u>	UN 3269
<u>14.2. UN proper shipping name:</u>	POLYESTER RESIN KIT
<u>14.3. Transport hazard class(es):</u>	3

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14.4. Packing group:

III

Hazard label:

3



Classification code:

F3

Special Provisions:

236 340

Limited quantity:

5 L

Other applicable information (inland waterways transport)

E0

Marine transport (IMDG)**14.1. UN number:**

UN 3269

14.2. UN proper shipping name:

POLYESTER RESIN KIT

14.3. Transport hazard class(es):

3

14.4. Packing group:

III

Hazard label:

3



Special Provisions:

236, 340

Limited quantity:

5 L

EmS:

F-E, S-D

Other applicable information (marine transport)

SP340

Air transport (ICAO)**14.1. UN number:**

UN 3269

14.2. UN proper shipping name:

POLYESTER RESIN KIT

14.3. Transport hazard class(es):

3

14.4. Packing group:

III

Hazard label:

3



Special Provisions:

A163

Limited quantity Passenger:

5 kg

IATA-packing instructions - Passenger:

370

IATA-max. quantity - Passenger:

10 kg

IATA-packing instructions - Cargo:

370

IATA-max. quantity - Cargo:

10 kg

Other applicable information (air transport)

E0

Passenger-LQ: Y370

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Warning: Combustible liquids.

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14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

1999/13/EC (VOC): > 12 % (> 235 g/l)

Additional information

To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC
 Regulation (EC) No. 2037/2000 concerning materials, which cause damage to the ozone layer.
 Regulation (EC) No. 648/2004 (Detergents regulation)

National regulatory information

Employment restrictions: Observe employment restrictions for young people.
 Water contaminating class (D): 2 - water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service
 LC50: Lethal concentration, 50%
 LD50: Lethal dose, 50%

Full text of R phrases referred to under Sections 2 and 3

10 Flammable.
 20 Harmful by inhalation.
 36/38 Irritating to eyes and skin.

Full text of H statements referred to under Sections 2 and 3

H226 Flammable liquid and vapour.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)