



SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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Matrixcote (R) Prime concentrate

Revision 4
Revision date 2017-08-08

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

1.1. Product identifier

Product name	Matrixcote (R) Prime concentrate
Product code	Matrixcote Prime concentrate 080817 C404

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

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites;
Description	Foundry material.

1.3. Details of the supplier of the safety data sheet

Company	Ransom & Randolph
Address	3535 Briarfield Boulevard, PO Box 1570 Maumee, Ohio 43537 USA
Web	www.ransom-randolph.com
Telephone	+1 (419) 865-9497
Fax	+1 (419) 865-9997
Email	RR.SDS@dentsply.com
Email address of the competent person	RR.SDS@dentsply.com

1.4. Emergency telephone number


Emergency telephone number	USA +1 419 865 9497
Company	Ransom & Randolph Co. 07:30 to 16:30 (Eastern Std. / GMT minus 5)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC	Xi; R43 Symbols: Xi: Irritant.
Main hazards	May cause sensitisation by skin contact.
2.1.2. Classification - EC 1272/2008	Skin Sens. 1: H317;

2.2. Label elements

Hazard pictograms	
Signal Word	Warning

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2.2. Label elements

Hazard Statement	Skin Sens. 1: H317 - May cause an allergic skin reaction.
Precautionary Statement: Prevention	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P302+P352 - IF ON SKIN: Wash with plenty of water/ . P321 - Specific treatment (see on this label). P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to local and national regulations

Further information

Based on available data, the classification criteria are not met. PBT and vPvB assessment.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	613-114-00-6	4719-04-4	225-208-0	01-0000000000-04	0 - 5%	Xn; R22 R43	
Alcohol ethoxyate C9 to C11		68439-46-3				Xi; R36	
Ethanolamine (2-Aminoethanol)	603-030-00-8	141-43-5	205-483-3	01-0000000000-04	0 - 5%	Xn; R20/21/22 C; R34	
Formaldehyde...% (Formaldehyde)	605-001-00-5	50-00-0	200-001-8			Carc. Cat. 3; R40 T; R23/24/25 C; R34 R43	

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	613-114-00-6	4719-04-4	225-208-0	01-0000000000-04		Acute Tox. 4: H302; Skin Sens. 1: H317;	
Alcohol ethoxyate C9 to C11		68439-46-3				Eye Irrit. 2: H319;	
Octamethylcyclotetrasiloxane	014-018-00-1	556-67-2	209-136-7			Repr. 2: H361f; Aquatic Chronic 4: H413;	

Further information

01-0000000000-04 exempt, under Biocide Products Regulation, BPR rule.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Immediate medical attention is required.
Skin contact	Remove all contaminated clothes and footwear immediately unless stuck to skin. Rinse immediately with plenty of water.
Ingestion	Drink 1 to 2 glasses of water. If swallowed, rinse mouth with water (only if the person is conscious). Get immediate medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Irritating to respiratory system.
Eye contact	Causes serious eye damage.

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4.2. Most important symptoms and effects, both acute and delayed

Skin contact	May cause sensitisation by skin contact.
Ingestion	May cause irritation to mucous membranes. Harmful if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

Inhalation	Seek medical attention if irritation or symptoms persist.
Eye contact	Get immediate medical advice/attention.
Skin contact	Seek medical attention if irritation or symptoms persist.
Ingestion	Immediately call a POISON CENTER/doctor/ .

SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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5.3. Advice for firefighters

	Self-contained breathing apparatus. Wear suitable protective clothing.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Wear suitable protective equipment.
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6.2. Environmental precautions

	Do not allow product to enter drains.
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6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Transfer to suitable, labelled container.
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6.4. Reference to other sections

	See section [2, 8 & 13] for further information.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Wash hands after handling the product.
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7.2. Conditions for safe storage, including any incompatibilities

	Do NOT allow to freeze. Keep in a cool, dry, well ventilated area. Keep containers tightly closed.
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7.3. Specific end use(s)

	Foundry material.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

	Ensure adequate ventilation of the working area.
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8.1.1. Exposure Limit Values


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8.1.1. Exposure Limit Values

Ethanolamine (2-Aminoethanol)	WEL 8-hr limit ppm: 1	WEL 8-hr limit mg/m3: 2.5
	WEL 15 min limit ppm: 3	WEL 15 min limit mg/m3: 7.6
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - respirable dust:
Formaldehyde...% (Formaldehyde)	WEL 8-hr limit ppm: 2	WEL 8-hr limit mg/m3: 2.5
	WEL 15 min limit ppm: 2	WEL 15 min limit mg/m3: 2.5
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - respirable dust:

8.2. Exposure controls

8.2.1. Appropriate engineering controls 8.2.2. Individual protection measures Eye / face protection Skin protection - Handprotection Respiratory protection	
	Ensure adequate ventilation of the working area.
	Apron (Plastic or rubber).
	Approved safety goggles.
	Wear suitable gloves.
Suitable respiratory equipment.	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Off white
Odour	Slight
Fat Solubility	Not applicable.
Miscible in	water
Partition coefficient	No data available
Autoignition temperature	Not applicable.
Viscosity	No data available
Explosive properties	Not applicable.
Oxidising properties	Not applicable.
pH	9
Melting point	Not applicable.
Freezing Point	≈ 0 °C
Initial boiling point	Not applicable.
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable.
Vapour pressure	No data available
Vapour density	No data available
Relative density	0.9 - 1 (H ₂ O = 1 @ 20 °C)
Solubility	Soluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	Not applicable.
Benzene Content	Not applicable.
Lead content	Not applicable.
VOC (Volatile organic compounds)	Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

	Not applicable.
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10.2. Chemical stability

	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	No Significant Hazard.
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10.4. Conditions to avoid

	Direct sunlight. Do NOT allow to freeze.
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10.5. Incompatible materials

	Sodium chloride.
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10.6. Hazardous decomposition products

	None.
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SECTION 11: Toxicological information

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11.1. Information on toxicological effects

Acute toxicity	No data is available on this product.
Skin corrosion/irritation	Irritating to skin.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	May cause sensitisation by skin contact.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Repeated or prolonged exposure	Irritating to respiratory system and skin. Causes serious eye damage.

11.1.4. Toxicological Information

Matrixcote (R) Prime concentrate	Oral Rat LD50: >2000 mg/kg
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SECTION 12: Ecological information

12.1. Toxicity

Matrixcote (R) Prime concentrate	Daphnia EC50/48h: 100.000 mg/l	Fish LC50/96h: 100.000 mg/l
	Algae EC50/72h: >100	

12.2. Persistence and degradability

	No data is available on this product.
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12.3. Bioaccumulative potential

	Does not bioaccumulate.
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Partition coefficient

	Matrixcote (R) Prime concentrate No data available
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12.4. Mobility in soil

	Not determined.
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12.5. Results of PBT and vPvB assessment

	Not applicable.
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12.6. Other adverse effects

	Not applicable.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

	Dispose of in compliance with all. local and national regulations.
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Disposal methods

	Contact a licensed waste disposal company.
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Disposal of packaging

Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.

Further information

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

SECTION 14: Transport information

14.1. UN number

The product is not classified as dangerous for carriage.

14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

Further information

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

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

Regulations

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

WGK 2.

15.2. Chemical safety assessment

No data is available on this product.

SECTION 16: Other information

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Other information

Revision	This document differs from the previous version in the following areas: 15 - Regulations.
Text of risk phrases in Section 3	R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed. R22 - Harmful if swallowed. R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed. R34 - Causes burns. R36 - Irritating to eyes. R40 - Limited evidence of a carcinogenic effect. R43 - May cause sensitisation by skin contact.
Text of Hazard Statements in Section 3	Acute Tox. 4: H302 - Harmful if swallowed. Skin Sens. 1: H317 - May cause an allergic skin reaction. Eye Irrit. 2: H319 - Causes serious eye irritation. Repr. 2: H361f - Suspected of damaging fertility. Aquatic Chronic 4: H413 - May cause long lasting harmful effects to aquatic life.

Further information

	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This 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 other process.
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