

RCT Graffix Basic Remover

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

1.1. Product identifier

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

Use of the substance/mixture

Building protection agents; anti-graffiti

1.3. Details of the supplier providing the safety data sheet

Company name: Reisacher Chemie & Technik GmbH
Street: Hermann-Krum-Str. 7
Place: 88319 Aitrach (Germany)
Phone: +49 7565 942687 - 0 Telefax: +49 7565 942687 - 90
E-Mail: info@rct-germany.de
Contact person: Dr. Rockermaier
E-Mail: m.rockermaier@rct-germany.de
Homepage: www.rct-germany.de
Informing department: Laboratory

1.4. Emergency phone number:

+49 7565 942687 - 0

The emergency number is only available on weekdays (Mon-Fri) from 8:30 to 16:00 (CET).

SECTION 2: Possible hazards

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Serious eye damage/eye irritation: eye damage 1.

Hazard statements:

Causes serious eye damage.

2.2. Label elements:

Regulation (EC) No. 1272/2008

Hazard-determining components of labelling

Butyro-1,4-lactone

Signal word: Danger

Pictograms:



Hazard statements

H318 Causes serious eye damage.

Safety advice

P261 Avoid breathing gas/mist/vapor.
P280 Wear protective gloves and eye/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove any contact lenses if possible. Continue to rinse.
P310 Immediately call a POISON CENTER/doctor.

Special labelling of certain mixtures

EUH208 Contains orange, sweet, extract. May cause allergic reactions

2.3. Other hazards

No special hazards to be mentioned. In any case, please observe the information in the safety data sheet.

SECTION 3: Composition/Information on ingredients

3.1. Substances

not applicable

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3.2. Mixtures

Chemical characterization

Paste, solvent-based.

Hazardous ingredients

CAS-No.	Designation			Proportion
	EG-No.	Index-No.	REACH-No.	
	GHS classification			
5131-66-8	Reaction mass of dimethyl adipate and dimethyl glutarate and dimethyl succinate			1 – 5 %
	906-170-0		01-2119475445-32	
96-48-0	Butyro-1,4-lactone			10 - 20 %
	202-509-5		01-2119471839-21	
	Acute Tox. 4, Eye Dam. 1, STOT SE 3; H302 H318 H336			
8028-48-6	Orange, sweet, extract			< 0,25 %
	232-433-8		01-2119493353-35	
	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H315 H317 H304 H400 H410			

Wording of H- and EUH-phrases: see section 16.

Specific concentration limits, M-factors and ATE

CAS-No.	Designation	Ptoportion
EG-Nr.	Specific concentration limits, M-factors and ATE	
	Reaction mass of dimethyl adipate and dimethyl glutarate and dimethyl succinate	50 - 75 %
906-170-0	inhalation: LC50 = > 11 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	
96-48-0	Butyro-1,4-lactone	10 - 20 %
202-509-5	inhalation: LC50 = > 5,1 mg/l (dusts or mists); dermal: LD50 = > 5000 mg/kg; oral: LD50 = 1582 mg/kg	
8028-48-6	Orange, sweet, extract	< 0,25 %
232-433-8	dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

Change soiled, soaked clothing.

After inhalation

Remove affected person to fresh air and keep warm and quiet.

In all cases of doubt or if symptoms are present, seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of soap and water.

Seek medical attention if skin reactions occur.

After contact with eyes

Immediately flush cautiously and thoroughly with eye wash or water.

Consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Do not induce vomiting.

Seek medical attention immediately.

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

Causes severe eye irritation. Unconsciousness, central nervous system depression.

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

Symptomatic treatment.

SECTION 5: Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2), water mist, foam, extinguishing powder.

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Unsuitable extinguishing media.

Water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be formed: Carbon dioxide (CO₂), Carbon monoxide (CO).

5.3. Advice for fire fighting

Wear self-contained breathing apparatus and chemical protective suit.
Collect contaminated extinguishing water separately. Do not allow to enter drains or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General instructions

Remove all sources of ignition. Ensure adequate ventilation. Do not inhale gas/vapor. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

6.2. Environmental precautions

Do not allow to enter drains, water courses or soil.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid binders, universal binders) and treat according to section Disposal.

6.4. Reference to other sections

Safe handling: see section 7
Personal protective equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Protective measures for safe handling

Notes on safe handling

Ensure adequate ventilation. Do not inhale mist/vapor/aerosol. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Advice on protection against fire and explosion

Keep away from sources of ignition - Do not smoke. Take measures against electrostatic charges.

Information on general hygiene measures at the workplace

Change soiled, saturated clothing. Wash hands before breaks and at the end of work.
Draw up and observe skin protection plan! Do not eat or drink during work.

Further information on handling

Further information: See section 8.

7.2. Conditions for safe storage taking into account incompatibilities

Requirements for storage rooms and containers

Keep containers tightly closed and store in a cool, well-ventilated place. Protect from direct direct sunlight.

Information on storage in one common storage facility

Do not store together with: Pyrophoric or self-heating hazardous materials, oxidizing agents.
Keep away from food, beverages and animal feed.

Further information on storage conditions

Packaging materials: Polyethylene, stainless steel.
Storage class according to TRGS 510: 10 (Flammable liquids, which cannot be assigned to any of the above mentioned LGK).

7.3. Specific end use

Coatings and paints, thinners, paint removers.

SECTION 8: Exposure controls/personal protection

8.1. Parameters to be monitored

Occupational exposure limits (TRGS 900)

CAS-No.	Designation	ppm	mg/m ³	F/m ³	Peak limit	Type
-	Dibasic esters (DBE) (mixtures of dimethyl adipate, dimethyl glutarate and dimethyl succinate)	1,2	8		2(II)	

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DNEL / DMEL values

CAS-No.	Designation			
DNEL-Type	Exposure route	Effect	Value	
96-48-0	Butyro-1,4-lactone			
Worker DNEL, long-term	inhalation	systemic	130 mg/m ³	
Worker DNEL, acute	inhalation	systemic	958 mg/m ³	
Worker DNEL, long-term	dermal	systemic	19 mg/kg KG/d	
8028-48-6	Orange, sweet, extract			
Worker DNEL, long-term	inhalation	systemic	31,1 mg/m ³	
Worker DNEL, long-term	dermal	systemic	8,89 mg/kg KG/d	
Worker DNEL, acute	dermal	local	0,1858 mg/cm ²	
Consumer DNEL, long-term	inhalation	systemic	7,78 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	4,44 mg/kg KG/d	
Consumer DNEL, acute	dermal	local	0,0929 mg/cm ²	
Consumer DNEL, long-term	oral	systemic	4,44 mg/kg KG/d	

PNEC values

CAS-No.	Designation		
Environmental compartment			Value
96-48-0	Butyro-1,4-lactone		
Freshwater			0,056 mg/l
Freshwater (intermittent release)			0,56 mg/l
Marine water			0,0056 mg/l
Freshwater sediment			0,24 mg/kg
Marine sediment			0,02 mg/kg
Microorganisms in sewage treatment plants			452 mg/l
Soil			0,014683 mg/kg
96-48-0	Orange, sweet, extract		
Freshwater			0,0054 mg/l
Freshwater (intermittent release)			0,00577 mg/l
Marine water			0,00054 mg/l
Freshwater sediment			1,3 mg/kg
Marine sediment			0,13 mg/kg
Microorganisms in sewage treatment plants			2,1 mg/l
Soil			0,261 mg/kg

8.2. Exposure controls and monitoring



Suitable technical control equipment

Remove all sources of ignition. Provide adequate ventilation.

Eye/face protection

Tight-fitting safety goggles. (DIN EN 166)

Hand protection

Suitable glove type Gauntlet gloves. (EN ISO 374)

For short-term hand contact: Disposable gloves.

Suitable material:

- NBR (nitrile rubber): material thickness: 0.35 mm, breakthrough time: > 480 min.

The design of chemical protective gloves must be selected specifically for the workplace, depending on the concentration and quantity of hazardous substances.

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Body protection

Protective clothing: Natural fiber (e.g., cotton), antistatic.
Chemical-resistant safety shoes.
Only wear suitable, comfortably fitting and clean protective clothing.

Respiratory protection

If technical extraction or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Suitable respirator: Filtering half mask (DIN EN 149), filter: AP2.

Limitation and supervision of exposure into the environment

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:		liquid
Color:		light yellow
Odor:		of: Solvent
Odor threshold:		no information available
Melting point/Freezing point:		not applicable
Boiling point or initial boiling point and boiling range:	> 200 °C	
Flash point:		100 °C
Flammability solid/liquid:		not applicable
Flammability gas:		not applicable
Explosion hazards when heated:		Vapors may form an explosive mixture with air.
Lower explosion limit:		not applicable
Upper explosion limit:		not applicable
Ignition temperature:		370 °C
Auto-ignition temperature solid:		not applicable
Auto-ignition temperature gas:		not applicable
Decomposition temperature:		not determined
Oxidizing properties		non-flammable (oxidizing)
pH value:		not applicable
Dynamic viscosity:		not applicable
Solubility in water:	(at 21 °C)	partially miscible
Solubility in other solvents		not determined
Partition coefficient		not determined
n-octanol/water:		
Vapor pressure:	(at 20 °C)	0.4 hPa calculated
Density	(at 21 °C):	1.0 g/cm ³ ISO 2811
Relative vapor density:		not determined

9.2. Other information

Other safety characteristics

Solvent content:	93 %
Solids content:	7 %

Further information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions will occur if handled and stored as directed.

10.2. Chemical stability

The product is stable when stored at normal ambient temperatures.

10.3. Possibility of hazardous reactions

When heated: Vapors may form an explosive mixture with air.

10.4. Conditions to avoid

Protect from heat. Protect against direct sunlight. Take measures against electrostatic charges.

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10.5. Incompatible materials

Oxidizing agents. Acid. Alkalis (caustic solutions).

10.6. Hazardous decomposition products

There are no known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Akute toxicity

Based on available data, the classification criteria are not met.

CAS-No.	Designation				
	Exposure route	Dose	Species	Source	Method
	Reaction mass of dimethyl adipate and dimethyl glutarate and dimethyl succinate				
	oral	LD50 > 5000 mg/kg	rat	ECHA	
	dermal	LD50 > 2000 mg/kg	rat	ECHA	
	inhalation (4 h) Aerosol	LC50 > 11 mg/l	rat	ECHA	
96-48-0	Butyro-1,4-lactone				
	oral	LD50 1582 mg/kg	rat	ECHA	
	dermal	LD50 > 5000 mg/kg	rabbit	MSDS	
	inhalation (4 h) Aerosol	LC50 > 5,1 mg/l	rat	ECHA	
8028-48-6	Orange, sweet, extract				
	oral	LD50 > 5000 mg/kg	rat	ECHA	
	dermal	LD50 > 5000 mg/kg	rabbit	ECHA	

Irritant and corrosive effects

Irritant and corrosive effects

Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitizing effects

Contains orange, sweet, extract. May cause allergic reactions.

Carcinogenic, mutagenic and toxic for reproduction effects

Based on available data, the classification criteria are not met.

Specific target organ toxicity at single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity in repeated exposure.

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Other information

No further relevant information available

General remarks

Classification of mixtures and assessment method used according to Regulation (EC) No 1272/2008 [CLP]. There are no data for the preparation/mixture itself.

SECTION 12: Environmental information

12.1. Toxicity

Based on available data, the classification criteria are not met.

CAS-No.	Designation				
	Aquatic Toxicity	Dose	[h] [d]	Species	Source
	Reaction mass of dimethyl adipate and dimethyl glutarate and dimethyl succinate				
	Acute fish toxicity	LC50 > 18 mg/l	96 h	Pimephales promelas (Thick head crack)	SIDA
	Acute algal toxicity	ErC50 > 85 mg/l	72 h	Pseudokirchneriella subcapitata	SIDA
	Acute crustacean toxicity	EC50 > 112 mg/l	48 h	Daphnia magna (Greater water flea)	SIDA
96-48-0	Butyro-1,4-lactone				

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Acute fish toxicity	LC50	220 - 460 mg/l	96 h	Leuciscus idus (golden orfe)	MSDS	
Acute algal toxicity	ErC50	360 mg/l	72 h	Desmodesmus subspicatus	MSDS	
Acute crustacean toxicity	EC50	> 500 mg/l	48 h	Daphnia magna	MSDS	
8028-48-6	Orange, süß, Extrakt					
Acute fish toxicity	LL50	5,65 mg/l	96 h	Leuciscus idus (golden orfe)	ECHA	OECD 203
Acute algal toxicity	ErC50	4,3 mg/l	72 h	Desmodesmus subspicatus	ECHA	OECD 201
Acute crustacean toxicity	EC50	1,1 mg/l	48 h	Daphnia magna	ECHA	OECD 202

12.2. Persistence and degradability

There is no information available.

12.3. Bioaccumulative potential

There is no information available.

Partition coefficient n-octanol/water

CAS-No.	Designation	Log Pow
96-48-0	Butyro-1,4-lactone	-0,57

12.4. Mobility in soil

There is no information available.

12.5. Results of PBT and vPvB assessment

The ingredients in this preparation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

There is no information available.

12.7. Other adverse effects

No further relevant information available.

Further information

Classification of mixtures and assessment method used according to Regulation (EC) No 1272/2008 [CLP]. No data available for the mixture. The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the individual components (see section 3)

SECTION 13: Disposal considerations

13.1. Waste treatment procedures

Recommendation

Do not allow to enter drains or water courses. Do not allow to enter subsoil/earth.
Dispose of in accordance with official regulations.

Waste code product

080117 WASTES FROM PRODUCTION, PREPARATION, DISTRIBUTION AND APPLICATION (MFSU) OF COATINGS (PAINTS, VARNISHES, ENAMEL), ADHESIVES, SEALING COMPOSITES AND PRINTING INKS; wastes from MFSU and removal of paints and varnishes; wastes from paint or varnish removal containing organic solvents or other hazardous substances; hazardous waste.

Waste code uncleaned packaging

150110 WASTES FROM PACKAGING, SUPPLIES, WIPING CLOTHES, FILTER MATERIALS AND PROTECTIVE CLOTHING (A.N.G.); packaging (including separately collected municipal packaging wastes); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Disposal of uncleaned packaging and recommended cleaning agents.

Contaminated packaging should be treated in the same manner as the substance. Non-contaminated and residual empty packaging can be recycled

SECTION 14: Transport information

Land transport (ADR/RID)

No dangerous goods according to above regulations

Inland waterway transport (ADN)

No dangerous goods according to above regulations

Marine transport (IMDG)

No dangerous goods according to above regulations

Air transport (ICAO)

No dangerous goods according to above regulations

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14.5. Environmental hazards

DANGEROUS TO THE ENVIRONMENT: no

14.6. Special precautions for the user

Keep cool. Protect from sunlight. Keep away from sources of ignition - Do not smoke.
Keep away from food, drink and animal feeding stuffs.

14.7. Bulk transport according to Annex II of MARPOL Convention 73/78 and according to IBC Code

not applicable

SECTION 15: Legislation

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

EU regulations

Information on VOC Directive 2004/42/EC: VOC value: 920 g/L (92 %)

National regulations

Employment restrictions: Observe employment restrictions for young people (§ 22 JArbSchG).
Water hazard class: 1 - slightly hazardous for water
Status: Classification of mixtures according to Annex 1, No. 5 AwSV

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for the following substances in this mixture:
Reaction mass of dimethyl adipate and dimethyl glutarate and dimethyl succinate.
butyro-1,4-lactone
Orange, sweet, extract

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 Good 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 Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
ATE: acute toxicity estimates
ECHA: european chemicals agency
(<http://echa.europa.eu/information-on-chemicals>)
GESTIS: German Social Accident Insurance Hazardous Substances Information System
(<http://dguv.de/ifa/GESTIS/GESTIS-Stoffdatenbank/index.jsp>)
MSDS:
The data of the hazardous ingredients were taken from the latest safety data sheet of the supplier.

Classification of mixtures and assessment method used according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification method
Eye Dam. 1; H318	Calculation method

Wording of H and EUH phrases (number and full text)

H226 Flammable liquid and vapor.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause allergic skin reactions.
H318 Causes serious eye damage.
H336 May cause drowsiness and dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

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EUH208 Contains orange, sweet, extract. May cause allergic reactions

Further information

The data of the hazardous ingredients were taken from the latest safety data sheet of the supplier. The information is based on our present knowledge, but does not constitute a guarantee of product properties and does not establish a contractual legal relationship.