

Safety Data Sheet for:

16000 – 16999 Cramer Kitchen & Bath Repair Kit

This Kit contains: 17000 – 17999 Cramer Repair Spray 50ml
 20010 Cramer Filler 30g
 21010 Cramer Hardener 8g

Technical information available at ftp://cramer-gmbh.de/TM16000_E.pdf

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 30.03.2009

Revision: 30.03.2009

1 Identification of the substance/preparation and of the company/undertaking

· Product details

· Trade name: Cramer Repair Spray 50ml

· Article number:

17000 - 17999

· Application of the substance / the preparation Lacquer

· Manufacturer/Supplier:

Cramer GmbH
 Salzstrasse 8 A
 D-85622 Feldkirchen
 Tel.: +49(0)89-99909770
 Fax.: +49(0)89-99909777
 E-Mail: info@cramer-gmbh.de
 www.cramer-gmbh.de

· Further information obtainable from: Abteilung Produktsicherheit

· Information in case of emergency:

+49(0)89 99909770
 (Mo-Do 08:00 -16:00 Uhr, Fr 08:00-12:00 Uhr)

2 Hazards identification

· Hazard description:



Xi Irritant
F+ Extremely flammable

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Warning! Pressurized container.

Has a narcotizing effect.

R 12 Extremely flammable.

R 36 Irritating to eyes.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C (e.g. in the car). Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

· Chemical characterization

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 123-86-4	n-butyl acetate	25-50%
EINECS: 204-658-1	R 10-66-67	

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CAS: 67-64-1 EINECS: 200-662-2	acetone ☒ Xi, ☒ F; R 11-36-66-67	25-50%
CAS: 106-97-8 EINECS: 203-448-7	butane (containing < 0,1 % butadiene (203-450-8)) ☒ F+; R 12	10-25%
CAS: 74-98-6 EINECS: 200-827-9	propane ☒ F+; R 12	5-10%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate ☒ Xi; R 10-36	2.5-<5.0%
CAS: 1330-20-7 EINECS: 215-535-7	xylene ☒ Xn, ☒ Xi; R 10-20/21-38	≤ 2.5%
CAS: 64742-94-5 EINECS: 265-198-5	Solvent naphtha (petroleum), heavy arom. ☒ Xn; R 65-66-67	≤ 2.5%
CAS: 67-63-0 EINECS: 200-661-7	propan-2-ol ☒ Xi, ☒ F; R 11-36-67	≤ 2.5%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom. ☒ Xn, ☒ Xi, ☒ N; R 10-37-51/53-65-66-67	≤ 0.5%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

5 Fire-fighting measures

- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:**
Water
Water with full jet
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Do not flush with water or aqueous cleansing agents
Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.

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Protect against electrostatic charges.

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:**

Keep container tightly sealed.

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

123-86-4 n-butyl acetate

WEL	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm
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67-64-1 acetone

WEL	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm
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106-97-8 butane (containing < 0,1 % butadiene (203-450-8))

WEL	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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108-65-6 2-methoxy-1-methylethyl acetate

WEL	Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm Sk
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1330-20-7 xylene

WEL	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
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67-63-0 propan-2-ol

WEL	Short-term value: 1250 mg/m ³ , 500 ppm Long-term value: 999 mg/m ³ , 400 ppm
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- **Additional information:** The lists valid during the making were used as basis.

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Berührung mit den Augen vermeiden

Avoid contact with the eyes and skin.

- **Respiratory protection:** Not required.

- **Protection of hands:**



Protective gloves

Solvent resistant gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **General Information**

Form:	Aerosol
Colour:	According to product specification
Odour:	Characteristic

· **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Not applicable, as aerosol.

· **Flash point:** Not applicable, as aerosol.

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** In use, may form flammable/explosive vapour-air mixture.

· **Explosion limits:**

Lower: 1.2 Vol %
Upper: 13.0 Vol %

· **Vapour pressure at 20°C:** 233 hPa

· **Density at 20°C:** 0.85 g/cm³

· **Solubility in / Miscibility with**

water: Not miscible or difficult to mix.
VOC-EU 84.3 %
682.4 g/l / 5.70 lb/gl
VOC-(EU) 714.6 g/l

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Dangerous reactions** No dangerous reactions known.

· **Dangerous decomposition products:** No dangerous decomposition products known.

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Trade name: Cramer Repair Spray 50ml

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11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

67-64-1 acetone

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** Irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

12 Ecological information

- **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

- **Product:**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

08 01 11	waste paint and varnish containing organic solvents or other dangerous substances
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15 01 04	metallic packaging
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- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 2 5F Gases.

- **Danger code (Kemler):** -

- **UN-Number:** 1950

- **Packaging group:** -

- **Hazard label** 2.1

- **Description of goods:** 1950 AEROSOLS

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Trade name: **Cramer Repair Spray 50ml**

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· **Limited quantities (LQ) LQ2**

· **Maritime transport IMDG:**



- **IMDG Class:** 2.1
- **UN Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No
- **Proper shipping name:** AEROSOLS

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **Proper shipping name:** AEROSOLS, flammable

15 Regulatory information

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**



Xi Irritant
F+ Extremely flammable

· **Risk phrases (product labelling with Risk phrases R12,66,67 not required):**

- 12 Extremely flammable.
- 36 Irritating to eyes.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

- 2 Keep out of the reach of children.
- 23 Do not breathe aerosol.
- 24/25 Avoid contact with skin and eyes.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.
- 56 Dispose of this material and its container to hazardous or special waste collection point.

· **Special labelling of certain preparations:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C (e.g. in the car). Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

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Trade name: Cramer Repair Spray 50ml

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- **National regulations:**
- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant R-phrases

- 10 Flammable.
- 11 Highly flammable.
- 12 Extremely flammable.
- 20/21 Harmful by inhalation and in contact with skin.
- 36 Irritating to eyes.
- 37 Irritating to respiratory system.
- 38 Irritating to skin.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

· Department issuing MSDS: Abteilung Labor**· Contact:** Anwendungstechnik**· * Data compared to the previous version altered.**

GB

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 20.11.2007

Revision: 20.11.2007

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** Kitchen & Bath Repair Kit - Filler 30g
- **Application of the substance / the preparation** Filler / Surfacer
- **Manufacturer/Supplier:**
Cramer GmbH
Salzstrasse 8 A
D-85622 Feldkirchen
Tel.: +49(0)89-99909770
Fax.: +49(0)89-999097777
e-mail: info@cramer-gmbh.de
www.cramer-gmbh.de
- **Further information obtainable from:** Mr. Heuberger
- **Information in case of emergency:** +49(0)89 99909770 (Mo-Thursday 08:00 - 16:00, Fr 08:00 - 12:00)




2 Hazards identification

- **Hazard description:** Not applicable.
- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
R 10 Flammable.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 100-42-5	styrene	 Xn,  Xi; R 10-20-36/38	10-12%
EINECS: 202-851-5			
	tert. aromatisches Amin	 T; R 25-52/53	≤ 0,2%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

5 Fire-fighting measures

- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

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Trade name: Kitchen & Bath Repair Kit - Filler 30g

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- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

100-42-5 styrene

WEL	Short-term value: 1080 mg/m ³ , 250 ppm
	Long-term value: 430 mg/m ³ , 100 ppm

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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Trade name: Kitchen & Bath Repair Kit - Filler 30g

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· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **General Information**

Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic

· **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 145°C

· **Flash point:** 31°C (DIN 53213)

· **Ignition temperature:** 480.0°C (DIN 51794)

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

Lower:	1.2 Vol %
Upper:	8.9 Vol %

· **Vapour pressure at 20°C:** 6.0 hPa

· **Density at 20°C:** 1.768 g/cm³ (DIN 53217)

· **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

· **Viscosity:**

Dynamic at 20°C: 115000 mPas

· **Solvent separation test:** < 3 %

· **Solvent content:**

Organic solvents:	12.6 %
VOC (EC)	18.4 g/l

· **Solids content (weight-%):** 87.4 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** Carbon monoxide

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Trade name: Kitchen & Bath Repair Kit - Filler 30g

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11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

100-42-5 styrene

Oral	LD50	5000 mg/kg (rat)
Inhalative	LC50/4 h	24 mg/l (rat)

· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

12 Ecological information

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

· **Product:**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

08 01 11	waste paint and varnish containing organic solvents or other dangerous substances
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· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **Land transport ADR/RID (cross-border)**

· **ADR/RID class:** 3 (F1) Flammable liquids.

· **Danger code (Kemler):** 30

· **UN-Number:** 3269

· **Instructions:** Dangerous goods in limited quantities according capture 3.4 ADR, LQ7

· **Label:** UN 3269 or LQ

· **Description of goods:** 3269 POLYESTER RESIN KIT

· **Maritime transport IMDG:**

· **IMDG Class:** 3

· **UN Number:** 3269

· **Label:** UN 3269 LTD QTY. according 3.4.5 IMDG

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Trade name: Kitchen & Bath Repair Kit - Filler 30g

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- **Packaging group:** III
- **EMS Number:** F-E,S-D
- **Marine pollutant:** No
- **Proper shipping name:** POLYESTER RESIN KIT
- **Instructions:** Dangerous goods in limited quantities according capture 3.4 IMDG, LQ7

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 3269
- **Label:** 3
- **Packaging group:** III
- **Proper shipping name:** POLYESTER RESIN KIT

15 Regulatory information

- **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- **Risk phrases:**

10 Flammable.

- **Safety phrases:**

1/2 Keep locked up and out of reach of children.

23 Do not breathe vapour.

26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

- **National regulations:**

- **Information about limitation of use:**

100-42-5 styrene

5

Class	Share in %
NK	10-25

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**

10 Flammable.

20 Harmful by inhalation.

25 Toxic if swallowed.

36/38 Irritating to eyes and skin.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Department issuing MSDS:** Labor

- **Contact:** Anwendungstechnik

- *** Data compared to the previous version altered.**

Safety Data Sheet
according to 1907/2006/EC (REACH), Art. 31

Printing date 12.04.2010

Rev. n. 1

Revision: 12.04.2010

1 Identification of the substance/preparation and of the company/undertaking

· **Product details**

· **Trade name: Kitchen & Bath Repair Kit - Hardener 8g**

· **Application of the substance / the preparation**

Hardening agent/ Curing agent

Catalyst

Dibenzoyl peroxide 50%

· **Manufacturer/Supplier:**

CRAMER GmbH

Salzstrasse 8 A

85622 Feldkirchen (Germany)

Tel. +49 (0)89 99909 770

Fax. +49 (0)89 99909 7777

e-mail: info@cramer-gmbh.de

www.cramer-gmbh.de

· **Further information obtainable from:** Mr. Heuberger

· **Information in case of emergency:** Tel. +49 (0)89 99909 770 (Mo-Thursday 8:00-16:00, Friday 08:00-12:00)

2 Hazards identification

· **Hazard description:**

Xi Irritant

O Oxidising

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 7 May cause fire.

R 36 Irritating to eyes.

R 43 May cause sensitisation by skin contact.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.




The Dibenzoyl Peroxide is classified as Oxidizing because it's strongly desensitized by organic liquids and/or inert solid materials and/or water.

3 Composition/information on ingredients

· **Chemical characterization**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 94-36-0 EINECS: 202-327-6 Index number: 617-008-00-0	dibenzoyl peroxide	 Xi,  E,  O; R 3-7-36-43	49-51%
CAS: 131-11-3 EINECS: 205-011-6	dimethyl phthalate		29-32%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

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Trade name: **Kitchen & Bath Repair Kit - Hardener 8g**

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- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
In case of fire, the following can be released:
Carbonic anhydride
Benzoic acid
Benzene
Biphenyl
Phenyl benzoate
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear suitable fire protection equipment.
- **Additional information** Cool endangered receptacles with water spray.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Use respiratory protective device against the effects of fumes/dust/aerosol.
Keep away from ignition sources.
Ensure adequate ventilation
- **Measures for environmental protection:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Pick up mechanically.

7 Handling and storage

- **Handling:**
 - **Information for safe handling:**
Use only in well ventilated areas.
Keep away from heat and direct sunlight.
 - **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Substance/product is oxidizing when dry.
- **Storage:**
 - **Requirements to be met by storerooms and receptacles:** No special requirements.
 - **Information about storage in one common storage facility:**
Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.
 - **Further information about storage conditions:**
Keep container tightly sealed.

The product, stored in the original containers, away from sunlight, maintains its properties for 12 months from the delivery date.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

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· Ingredients with limit values that require monitoring at the workplace:	
94-36-0 dibenzoyl peroxide	
WEL (Great Britain)	Long-term value: 5 mg/m ³
PEL (USA)	Long-term value: 5 mg/m ³
REL (USA)	Long-term value: 5 mg/m ³
TLV (USA)	Long-term value: 5 mg/m ³
131-11-3 dimethyl phthalate	
WEL (Great Britain)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³
PEL (USA)	Long-term value: 5 mg/m ³
REL (USA)	Long-term value: 5 mg/m ³
TLV (USA)	Long-term value: 5 mg/m ³

· **Additional information:** The lists valid during the making were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Keep away from tobacco products.

· **Respiratory protection:** Not required.

· **Protection of hands:**



Protective gloves

Neoprene gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Light weight protective clothing

9 Physical and chemical properties

· General Information	
· Form:	Pasty
· Colour:	According to product specification
· Odour:	Characteristic
· Change in condition	
· Melting point/Melting range:	Undetermined.

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· Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	May cause fire.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	SADT 50°C The SADT (self-accelerating decomposition temperature) is an experimentally determined temperature at which the product, in its conventional packaging will decompose in a selfaccelerating reaction.
· Vapour pressure at 20°C:	1 hPa
· Density at 20°C:	1.1 g/cm ³
· Solubility in / Miscibility with water:	Insoluble.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
Visible decomposition with spontaneous ignition on heating.
SADT = 50°C
- **Materials to be avoided:** Reducing agents like amines, acids, alkali, compounds based on heavy metals (p.e. accelerators)
- **Dangerous reactions**
Reacts with reducing agents.
Reacts with heavy metals.
Reacts with alkali, amines and strong acids.
- **Dangerous decomposition products:**
Carbon dioxide
Benzoic acid
Benzene
Biphenyl
Phenyl benzoate

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant
- **Sensitisation** May cause sensitisation by skin contact.

12 Ecological information

- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Disposal must be made according to official regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· Land transport ADR/RID (cross-border)



- **ADR/RID class:** 5.2 Organic peroxides.
- **Danger code (Kemler):** -
- **UN-Number:** 3108
- **Packaging group:** -
- **Hazard label** 5.2
- **Description of goods:** 3108 ORGANIC PEROXIDE TYPE E, SOLID
- **Limited quantities (LQ)** LQ11
- **Transport category** 2
- **Tunnel restriction code** D

· Maritime transport IMDG:



- **IMDG Class:** 5.2
- **UN Number:** 3108
- **Label** 5.2
- **Packaging group:** -
- **EMS Number:** F-J,S-R
- **Marine pollutant:** No
- **Proper shipping name:** ORGANIC PEROXIDE TYPE E, SOLID

· Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 5.2
- **UN/ID Number:** 3108
- **Label** 5.2
- **Packaging group:** -
- **Proper shipping name:** ORGANIC PEROXIDE TYPE E, SOLID

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· **Transport/Additional information:**

If the catalyst (organic peroxide, class 5.2) is packaged in a kit with basic product (polyester resin, class 3, PG III), can be considered as polyester resin kit.

Description of goods: UN 3269, POLIESTER RESIN KIT

Class: 3

Limited Quantities: LQ7

Packaging Group: III

Transport category: 3

Tunnel restriction code: D/E

EMS Number: F-E, S-D

15 Regulatory information

· **Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**

Xi Irritant

O Oxidising

· **Hazard-determining components of labelling:**

dibenzoyl peroxide

· **Risk phrases:**

7 May cause fire.

36 Irritating to eyes.

43 May cause sensitisation by skin contact.

· **Safety phrases:**

2 Keep out of the reach of children.

3/7 Keep container tightly closed in a cool place.

37/39 Wear suitable gloves and eye/face protection.

46 If swallowed, seek medical advice immediately and show this container or label.

· **National regulations:**· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.· **Other regulations, limitations and prohibitive regulations**

The data and the informations reported in the present Material Safety Data Sheet are consistent to the Directives 1967/548/EEC, 1999/45/EC, 76/769/EEC, to the Regulation 1907/2006/EC (REACH) and 1272/2008/CE (CLP) and to what prescribed by the in force regulation in matter of classification, packaging and labelling of dangerous substances and preparations. Finally, users should check and comply with specific national and local laws in matters of hazardous activities and environmental protection (e.g.: gassy, liquid and solid emissions) not specifically covered in this document.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant R-phrases**

3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.

36 Irritating to eyes.

43 May cause sensitisation by skin contact.

7 May cause fire.

· **Contact:** Anwendungstechnik