

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 15.05.2014

Version number 1

Revision: 15.05.2014

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

· **Date of compilation:** 28.04.2014

· **1.1 Product identifier**

· **Trade name:** Rico Design Mosaic Glue, No. 7011.540

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.

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

· **1.3 Details of the supplier of the safety data sheet**

Rico Design GmbH & Co. KG
Industriestrasse 19-23
D-33034 Brakel

Tel. (+49) (0)5272 602-0
FAX (+49) (0)5272 602-939

· **E-mail address of the competent person responsible for the Safety Data Sheet:** sdb@csb-online.de

· **Informing department:** Sales / Technics

· **1.4 Emergency telephone number:**

As above or next toxicological information centre.
Poison information center: +49-30-4505-0

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Irritant

R36: Irritating to eyes.



F; Highly flammable

R11: Highly flammable.

R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

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

Long or repeated contact with skin may cause dermatitis due to the degreasing effect of the solvent.
Has a narcotizing effect.

· **Classification system:**

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.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

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· Hazard pictograms



GHS02 GHS07

· Signal word *Danger*

· Hazard-determining components of labelling:

Acetone

· Hazard statements

*H225 Highly flammable liquid and vapour.**H319 Causes serious eye irritation.**H336 May cause drowsiness or dizziness.*

· Precautionary statements

*P101 If medical advice is needed, have product container or label at hand.**P102 Keep out of reach of children.**P210 Keep away from open flames. - No smoking.**P271 Use only outdoors or in a well-ventilated area.**P405 Store locked up.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

· Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterization: Mixtures

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

CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5	Ethanol F R11 Flam. Liq. 2, H225; Eye Irrit. 2, H319	25-<50%
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8	Acetone Xi R36; F R11 R66-67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	25 - 50%

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

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **General information:** Immediately remove any clothing contaminated by the product.· **After inhalation:** Supply fresh air; consult doctor in case of symptoms.· **After skin contact:***Instantly wash with water and soap and rinse thoroughly.**After prolonged skin contact defatting of skin possible, use skin protecting agent after prolonged skin contact.**Take off contaminated clothing and wash before reuse.*· **After eye contact:***Rinse opened eye for several minutes under running water. Then consult doctor.**Remove contact lenses, if present and easy to do.*

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- **After swallowing:**
Rinse out mouth and then drink plenty of water.
In case of persistent symptoms consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
May cause drowsiness or dizziness.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
Carbon dioxide (CO₂), extinguishing powder or water spray/fog. Fight larger fires with water spray/fog or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
Can be released in case of fire:
Carbon monoxide (CO) and Carbon dioxide (CO₂)
Can form explosive vapour-air mixtures.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**
Cool endangered containers with water spray jet.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
If without risk possible, move drums with material away from dangerous area.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
Remove all ignition sources.
Do not breathe vapour.
Avoid contact with skin and eyes.
- **6.2 Environmental precautions:**
Do not allow to enter drainage system, surface or ground water.
Prevent material from reaching sewage system, holes and cellars.
- **6.3 Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Send for recovery or disposal in suitable containers.
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Do not breathe vapour/spray.
Avoid contact with skin and eyes.
Make sure that all applicable workplace limits are observed.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.

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Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage

· Requirements to be met by storerooms and containers:

Store in cool location.

Observe regulations for storage of flammable liquids.

Observe all local and national regulations for storage of water polluting products.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

· Further information about storage conditions:

Store container in a well ventilated position.

Store in cool, dry conditions in well sealed containers.

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· 8.1 Control parameters

· Components with critical values that require monitoring at the workplace:

64-17-5 Ethanol (25-<50%)WEL (Great Britain) Long-term value: 1920 mg/m³, 1000 ppm**67-64-1 Acetone (25 - 50%)**WEL (Great Britain) Short-term value: 3620 mg/m³, 1500 ppmLong-term value: 1210 mg/m³, 500 ppmIOELV (European Union) Long-term value: 1210 mg/m³, 500 ppm

· DNELs

67-64-1 Acetone

Oral DNEL long-term exposure - systemic effects 62 mg/kg bw/d (general population)

Dermal DNEL long-term exposure - systemic effects 62 mg/kg bw/d (general population)

186 mg/kg bw/d (worker)

Inhalative DNEL acute / short-term exposure - local effects 2420 mg/m³ (worker)DNEL long-term exposure - systemic effects 200 mg/m³ (general population)1210 mg/m³ (worker)

· PNECs

67-64-1 Acetone

PNEC 10.6 mg/l (aqua (freshwater))

21 mg/l (aqua (intermittent releases))

1.06 mg/l (aqua (marine water))

3.04 mg/kg (sediment (freshwater))

3.04 mg/kg (sediment (marine water))

29.5 mg/kg (soil)

100 mg/l (STP (sewage treatment plant))

· 8.2 Exposure controls

· Personal protective equipment

· General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Instantly remove any contaminated garments.

Wash hands during breaks and at the end of the work.

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Use skin protection cream for preventive skin protection.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working.

Do not carry cleaning cloths impregnated with the product in trouser pockets.

· **Breathing equipment:** Use breathing protection in case of insufficient ventilation.

· **Protection of hands:**

Solvent resistant 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**

Butyl rubber - BR

Recommended thickness of the material: ≥ 0.5 mm

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**

Penetration time: ≥ 8 hours

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

· **Eye protection:** Safety glasses recommended

· **Body protection:**

Solvent resistant protective clothing

Body protection must be chosen depending on activity and possible exposure.

· **Limitation and supervision of exposure into the environment**

Do not allow to enter drainage system, surface or ground water.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: pasty

Colour: clear

· **Smell:** product specific

· **Odour threshold:** not determined

· **pH-value:** not determined

· **Change in condition**

Melting point/Melting range: not determined

Boiling point/Boiling range: not determined

· **Flash point:** not determined

· **Inflammability (solid, gaseous)** not applicable

· **Ignition temperature:** not determined

· **Decomposition temperature:** Not determined.

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

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

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|---|--|
| · Critical values for explosion: | |
| Lower: | Not determined. |
| Upper: | Not determined. |
| · Oxidizing properties | none |
| · Vapor pressure: | Not determined. |
| · Density at 20 °C: | 0.88 g/cm ³ |
| · Bulk density: | not applicable |
| · Relative density | Not determined. |
| · Vapour density (AIR = 1): | Not determined. |
| · Evaporation rate | Not determined. |
| · Solubility in / Miscibility with Water: | fully miscible |
| · Partition coefficient (n-octanol/water): Not determined. | |
| · Viscosity: | |
| dynamic: | not determined |
| kinematic: | not determined |
| · 9.2 Other information | No further relevant information available. |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** see 10.3
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
Avoid impact, friction, heat, sparks, electrostatic charges.
- **10.3 Possibility of hazardous reactions** Develops readily flammable gases / fumes
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Strong oxidizing agents
- **10.6 Hazardous decomposition products:** Carbon monoxide (CO) and Carbon dioxide (CO₂)

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

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

64-17-5 Ethanol

Oral	LD50	10470 mg/kg (rat) (OECD 401)
Dermal	LD50	> 2000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4 h	117 - 125 mg/l (rat) (OECD 403)

67-64-1 Acetone

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

- **Primary irritant effect:**
- **on the skin:** Long or repeated contact can defat skin and may cause dermatitis.
- **on the eye:** Causes serious eye irritation.

· **Subacute to chronic toxicity:**

64-17-5 Ethanol

NOAEL	> 3000 mg/kg/d (rat) (24 month - OECD 451)
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- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of Regulation (EC) No. 1272/2008 (CLP/GHS):

- Eye Irrit. 2

- STOT SE 3

Inhalation of concentrated vapours may lead to anaesthesia-like conditions and headache, dizziness, etc.

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

According to present knowledge no CMR-effects known.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

- **64-17-5 Ethanol**

EC50/48 h	12900 mg/l (green algae (<i>Scenedesmus capricornutum</i>)) (OECD 201)
EC50/72 h	275 mg/l (algae) (OECD 201)
LC50/48 h	12340 mg/l (water flea (<i>daphnia magna</i>))
LC50/96 h	13000 mg/l (rainbow trout (<i>oncorhynchus mykiss</i>)) (OECD 203)

- **67-64-1 Acetone**

EC50/16 h	1700 mg/l (bacteria)
EC50/48 h	3400 mg/l (algae)
	12100 mg/l (water flea (<i>daphnia magna</i>))
LC50/96 h	5540 mg/l (rainbow trout (<i>oncorhynchus mykiss</i>))

- **12.2 Persistence and degradability** No further relevant information available.

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Water hazard class 1 (Self-assessment): slightly hazardous for water

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

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

- **European waste catalogue:**

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

- **Uncleaned packagings:**

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

SECTION 14: Transport information

- **14.1 UN-Number**

- **ADR, IMDG, IATA**

UN1133

- **14.2 UN proper shipping name**

- **ADR**

UN1133 ADHESIVES, Special provision 640D

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· **IMDG, IATA****ADHESIVES**· **14.3 Transport hazard class(es)**· **ADR**· **Class**

3 (F1) Flammable liquids.

· **Label**

3

· **IMDG, IATA**· **Class**

3 Flammable liquids.

· **Label**

3

· **14.4 Packing group**· **ADR, IMDG, IATA**

II

· **14.5 Environmental hazards:**· **Marine pollutant:**

NO

· **14.6 Special precautions for user**

Warning: Flammable liquids.

· **Kemler Number:**

33

· **EMS Number:**

F-E,S-D

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

Not applicable.

· **Transport/Additional information:**

Transport by post may be prohibited or restricted.

· **ADR**· **Excepted quantities (EQ):**

E2

· **Limited quantities (LQ):**

5L

· **Transport category:**

2

· **Tunnel restriction code:**

D/E

· **UN "Model Regulation":**

UN1133, ADHESIVES, Special provision 640D, 3, II

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**· **National regulations**· **Information about limitation of use:** Employment restrictions concerning young persons must be observed.· **Decree to be applied in case of technical fault:**

Quantity limits according to "EC Seveso directive" should be observed.

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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· **Relevant phrases**

The(se) R- resp. H-phrase(s) are those of the ingredient(s) and do(es) not necessarily represent the classification of the preparation/mixture.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

R11 Highly flammable.

R36 Irritating to eyes.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

· **Department issuing MSDS:**

C.S.B. GmbH

Düsseldorfer Str. 113

47809 Krefeld / Germany

Phone: +49 - 2151 - 652086-0

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· **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 (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

· **Sources:** *These data are based on information submitted by pre-suppliers.*