

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

Printing date: 17.01.2019

versione n° 2

Revision: 17.01.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking												
<ul style="list-style-type: none"> - 1.1 Product identifier - Trade name: <u>MICROSYSTEM ADHESIVE</u> - Article number: 18PJ00094, FBIFC471+M4103 - 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. - Application of the preparation: Adhesives - 1.3 Details of the supplier of the safety data sheet - Manufacturer/Supplier: Kerakoll France avenue de l'industrie 69960 Corbas Lyone France tel +33 4728906080 fax +33 4728906081 - E-mail address of the competent person responsible for the SDS: safety@kerakoll.com - Informing department: Product safety department - 1.4 Emergency telephone number: +441527578000 (Kerakoll UK) +39-0536-816511 (Kerakoll Italy) 												
SECTION 2: Hazards identification												
<ul style="list-style-type: none"> - 2.1 Classification of the substance or mixture - Classification according to Regulation (EC) No 1272/2008 The product is not classified hazardous according to the CLP regulation. - 2.2 Label elements - Labelling according to Regulation (EC) No 1272/2008 Void - Hazard pictograms Void - Signal word Void - Hazard statements Void - Additional information: EUH208 Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine, Fatty acids C14-C18 and C16-C18 unsatd, maleated, 1-methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate bis(1,2,2,6,6-pentamethylpiperidin-4-yl) decanedioate. May produce an allergic reaction. EUH210 Safety data sheet available on request. - 2.3 Other hazards - Results of PBT and vPvB assessment - PBT: Not applicable. - vPvB: Not applicable. 												
SECTION 3: Composition/information on ingredients												
<ul style="list-style-type: none"> - 3.2 Mixtures - Description: Mixture of the substances listed below with harmless additions. - Dangerous components: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 40%; padding: 2px;">CAS: 28553-12-0</td> <td style="width: 40%; padding: 2px;">di-isonylphthalate</td> <td style="width: 20%; padding: 2px;">10-24.9%</td> </tr> <tr> <td style="padding: 2px;">EINECS: 249-079-5</td> <td style="padding: 2px;">substance with a Community workplace exposure</td> <td></td> </tr> <tr> <td style="padding: 2px;">Reg.nr.: 01-2119432682-41-XXXX</td> <td style="padding: 2px;">limit</td> <td></td> </tr> <tr> <td style="padding: 2px;">01-2119430798-28-XXXX</td> <td></td> <td></td> </tr> </table>	CAS: 28553-12-0	di-isonylphthalate	10-24.9%	EINECS: 249-079-5	substance with a Community workplace exposure		Reg.nr.: 01-2119432682-41-XXXX	limit		01-2119430798-28-XXXX		
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01-2119430798-28-XXXX												
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Trade name: **MICROSYSTEM ADHESIVE**

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CAS: 2768-02-7 EINECS: 220-449-8	trimethoxyvinylsilane ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; ⚠ Acute Tox. 4, H332	2.5-4.9%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-XXXX	propan-2-ol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	<0.2%
CAS: 67-56-1 EINECS: 200-659-6 Index number: 603-001-00-X Reg.nr.: 01-2119433307-44-XXXX	methanol ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ STOT SE 1, H370	<0.01%

- Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information No special measures required.
- After inhalation Supply fresh air; consult doctor in case of symptoms.
- After skin contact The product is not skin irritating.
- After eye contact Rinse opened eye for several minutes under running water.
- After swallowing 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
No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents
CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- 5.2 Special hazards arising from the substance or mixture
No further relevant information available.
- 5.3 Advice for firefighters
- Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: Do not allow to enter drainage system, surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 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 No special measures required.
- Information about protection against explosions and fires: No special measures required.

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- 7.2 Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and containers: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- 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 limit values that require monitoring at the workplace:

28553-12-0 di-isononylphthalate

WEL (Gran Bretagna)	Long-term value: 5 mg/m ³
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67-63-0 propan-2-ol

WEL (Gran Bretagna)	Short-term value: 1250 mg/m ³ , 500 ppm Long-term value: 999 mg/m ³ , 400 ppm
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67-56-1 methanol

WEL (Gran Bretagna)	Short-term value: 333 mg/m ³ , 250 ppm Long-term value: 266 mg/m ³ , 200 ppm Sk
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IOELV (Unione Europea)	Long-term value: 260 mg/m ³ , 200 ppm Skin
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- Additional information: The lists that were valid during the compilation were used as basis.

- 8.2 Exposure controls
- Personal protective equipment
- General protective and hygienic measures
The usual precautionary measures should be adhered to general rules for handling chemicals.
- Breathing equipment: Not required.
- Protection of hands: Not required.
- Material of gloves -
- Penetration time of glove material -
- Eye protection: Safety glasses recommended during refilling.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

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|--|------------------------------------|
| Appearance: | Fluid |
| - Form: | Pasty |
| - Colour: | According to product specification |
| - Odour: | Light |
| - Odour threshold: | Not determined. |
| - pH-value: | Not determined. |
| - Change in condition | |
| Melting point/freezing point: | Not determined |
| Initial boiling point and boiling range: | >300 °C |
| - Flash point: | >80 °C |
| - Inflammability (solid, gaseous) | Not applicable. |

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- Ignition temperature:	420 °C
- Decomposition temperature:	Not determined.
- Self-inflammability:	Product is not selfigniting.
- Explosive properties:	Product is not explosive.
- Critical values for explosion:	
Lower:	0.1 Vol %
Upper:	0.2 Vol %
- Vapour pressure:	Not determined.
- Density at 20 °C	1.5 g/cm ³
- Relative density	Not determined.
- Vapour density	Not determined.
- Evaporation rate	Not determined.
- Solubility in / Miscibility with Water:	Soluble
- Partition coefficient: n-octanol/water:	Not determined.
- Viscosity:	
dynamic at 20 °C:	100,000 mPas
kinematic:	Not determined.
Organic solvents:	0.2 %
- 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.

- LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimates)

Inhalative	LC50/4 h	273 mg/l
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67-63-0 propan-2-ol

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rab)
Inhalative	LC50/4 h	30 mg/l (rat)

67-56-1 methanol

Oral	LD50	13,000 mg/kg (rat)
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- Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.

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- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- 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.

SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 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.
- General notes:
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
- 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
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Waste disposal key number: 16 03 05* - organic wastes containing dangerous substances
- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN-Number	The product is not dangerous according to ADR, ADN, IMDG, IATA.
- ADR, ADN, IMDG, IATA	Void
- 14.2 UN proper shipping name	
- ADR, ADN, IMDG, IATA	Void
- 14.3 Transport hazard class(es)	
- ADR, ADN, IMDG, IATA	
- Class	Void
- 14.4 Packing group	
- ADR, IMDG, IATA	Void
- 14.5 Environmental hazards:	Not applicable.
- 14.6 Special precautions for user	Not applicable.

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|---|-----------------|
| - 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| - UN "Model Regulation": | Void |

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 - Directive 2012/18/EU
 - Named dangerous substances - ANNEX I None of the ingredients is listed.
 - REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: -
 - National regulations
The product is subject to classification in accordance with the prevailing version of the regulations on hazardous materials.
 - Additional classification according to Decree on Hazardous Materials, Annex II: -
 - 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

- Relevant phrases
 - H225 Highly flammable liquid and vapour.
 - H226 Flammable liquid and vapour.
 - H301 Toxic if swallowed.
 - H311 Toxic in contact with skin.
 - H319 Causes serious eye irritation.
 - H331 Toxic if inhaled.
 - H332 Harmful if inhaled.
 - H336 May cause drowsiness or dizziness.
 - H370 Causes damage to organs.
 - H373 May cause damage to organs through prolonged or repeated exposure.
- Department issuing data specification sheet: SCP
- Contact: Dr. B. Brina c/o Kerakoll S.p.A. tel. +39-0536-816511 fax +39-0536-816581
- Others regulations
The safety data sheet has been drawn up in accordance with European directives 1999/45/EC, 2001/58/EC, 2001/59/EC and 2001/60/EC.
- 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 Harmonised 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)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
 - Flam. Liq. 2: Flammable liquids – Category 2
 - Flam. Liq. 3: Flammable liquids – Category 3
 - Acute Tox. 3: Acute toxicity – Category 3
 - Acute Tox. 4: Acute toxicity – Category 4
 - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 - STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
 - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 - STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
- * Data compared to the previous version altered.

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