300590

OPTIBOND FL ADHESIVE

06/06/2019



Safety Data Sheet OPTIBOND FL ADHESIVE

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THECOMPANY/UNDERTAKING

Product identifier 1.1.

Product name

: OPTIBOND FL ADHESIVE

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

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Relevant identified uses

Main use category

Function or use category

: Professional use Dental materials.

Uses advised against

No additional information available

Details of the supplier of the safety datasheet 1.3.

Supplier Kerr Italia S.r.l. Via Passanti, 332 84018 Scafati (SA) - Italy T +39-081-850-8311

Manufacturer Kerr Italia S.r.l. Via Passanti, 332 84018 Scafati (SA) - Italy T +39-081-850-8311

Contact person : safety@kavokerr.com - tel. 00-800-41-050-505 (08.00-17.00)

1.4. **Emergency telephone number**

Emergency number

: CHEMTREC® Emergency Call Center. Emergency Telephone Number (for USA only) 001-800-424-9300 International and Maritime Telephone Number +1 (703)527-3887

| Country | Organisation/Company | Address | Emergency number |
|----------------|---|---|--|
| United Kingdom | National Poisons Information Service (Newcastle Unit) | Claremont Place Newcastle-upon-Tyne, Newcastle | +44 191 2606182/+44 191 2606180 24H |

SECTION 2: HAZARDSIDENTIFICATION 2.1. Classification of the substance ormixture

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

| Skin Irrit. 2 | H315 |
|---------------|------|
| Eye Irrit. 2 | H319 |
| Skin Sens. 1 | H317 |

Full text of classification categories and H statements : see section 16

2.2. Label elements

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

| Hazard pictograms (CLP) | GHS07 |
|--------------------------------|--|
| Signal word (CLP) | : Warning |
| Hazardous ingredients | : 2-hydroxyethyl methacrylate |
| Hazard statements (CLP) | : H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation |
| Precautionary statements (CLP) | : P261 - Avoid breathing spray, vapours, gas, fume, mist P264 - Wash hands, forearms and face thoroughly after handling |

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P280 - Wear eye protection, protective gloves

Extra phrases

P501 - Dispose of contents/container to ...
: The product is seen as a medical device and therefore not subject to labelling (EU-regulation 1907/2006, article 2, paragraph 6c).

P272 - Contaminated work clothing should not be allowed out of the workplace

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

contact lenses, if present and easy to do. Continue rinsing P332+P313 - If skin irritation occurs: Get medical advice/attention P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse

2.3. Other hazards

Other hazards not contributing to the : None under normal conditions.

classification

. None under normal conditions

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: COMPOSITION/INFORMATION ONINGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-----------------------------|---|----------|---|
| 2-hydroxyethyl methacrylate | (CAS No) 868-77-9 (EC no) 212-782-2 (EC index no) 607-124-00-X (REACH-no) 01-2119490169-29 | =>15-<20 | Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317 |
| alkali fluorosilicates(Na) | (CAS No) 16893-85-9 (EC no) 240-934-8 (EC index no) 009-012-00-0 (REACH-no) 01-2119519245-43 | =>1-<2 | Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 |

Full text of H-statements: see section 16

| SECTION 4: FIRST AIDMEASURI | ES |
|---------------------------------------|--|
| 4.1. Description of first aid measure | S |
| First-aid measures general | : No particular/specific measures required. |
| First-aid measures after inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell. |
| First-aid measures after skin contact | : Gently wash with plenty of soap and water. If skin irritation occurs: Getmedical advice/attention. |
| First-aid measures after eye contact | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell. |
| First-aid measures after ingestion | : If swallowed, rinse mouth with water (only if the person is conscious). Call a POISON CENTER or doctor/physician if you feel unwell. |
| 4.2. Most important symptoms and | effects, both acute and delayed |
| Symptoms/injuries after skin contact | : Causes skin irritation. May cause an allergic skin reaction. |
| Symptoms/injuries after eye contact | : Causes serious eye irritation. |
| 4.3. Indication of any immediate me | dical attention and special treatment needed |

| Treat symptom | natically. |
|---------------|------------|
|---------------|------------|

| SECTION 5: FIREFIGHTINGMEASUR | RES |
|---|--|
| 5.1. Extinguishing media | |
| Suitable extinguishing media | : Use extinguishing media appropriate for surrounding fire. Foam, carbon dioxide (CO2) and powder. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |
| 5.2. Special hazards arising from the su | bstance or mixture |
| Fire hazard | : Non flammable. |
| Explosion hazard | : Product is not explosive. |
| Hazardous decomposition products in case of fire | : Carbon dioxide. Carbon monoxide. |

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|--|---|---------|
| 5.3. Advice for firefighters | | |
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. | |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratoryprotec | ction. |
| SECTION 6: ACCIDENTAL RELEAS | EMEASURES | |
| 6.1. Personal precautions, protective ed | quipment and emergency procedures | |
| General measures | : Avoid all eye and skin contact and do not breathe vapour and mist. | |
| For non-emergency personnel | | |
| Protective equipment | : See Heading 8. | |
| Emergency procedures | : Evacuate unnecessary personnel. | |
| For emergency responders | | |
| No additional information available | | |
| 6.2. Environmental precautions | | |
| Avoid release to the environment. | | |
| 6.3. Methods and material for containm | ent and cleaning up | |
| For containment | : Collect all waste in suitable and labelled containers and dispose according to local legislation. | |
| Methods for cleaning up | : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible | e. |
| 6.4. Reference to other sections | | |
| For further information refer to section 13. | | |
| SECTION 7: HANDLING ANDSTORA | AGE | |
| 7.1. Precautions for safe handling | | |
| Precautions for safe handling | : Do not eat, drink or smoke when using this product. Keep away from heat, hot surfaces sparks, open flames and other ignition sources. No smoking. | S, |
| Hygiene measures | : Do not eat, drink or smoke when using this product. | |
| 7.2. Conditions for safe storage, include | ing any incompatibilities | |
| Storage conditions | : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Ne smoking. Keep container tightly closed. | 0 |
| Incompatible products | : Oxidizing agent. Strongacids. | |
| Incompatible materials | : Strong acids. Oxidizing substances. | |
| Storage area | : Store in a well-ventilated place. | |

7.3. Specific end use(s)

Consult the supplier for further information.

SECTION 8: EXPOSURE CONTROLS/PERSONALPROTECTION

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls

Personal protective equipment Hand protection

Eye protection

Skin and body protection Respiratory protection



: Do not eat, drink or smoke during use.

: Safety glasses. STANDARD EN 166.

: Wear suitable protective clothing

use with adequate ventilation

: Gloves. Safety glasses.

: Ensure good ventilation of the work station. Emergency eye wash fountains should be

: Nitrile rubber gloves. PVC gloves. Polyvinylalcohol (PVA). Breakthrough time : 6 (> 480

: No special respiratory protection equipment is recommended under normal conditions of

available in the immediate vicinity of any potential exposure.

minutes). Layer thickness : 0,2 - 0,4 mm. STANDARD EN 374.

019

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| SECTION 9: PHYSICAL AND CHEM | AICALPROPERTIES |
| 9.1. Information on basic physical and | d chemical properties |
| Physical state | : Liquid |
| Colour | : Pale yellow. |
| Odour | : Fruity. |
| Odour threshold | : No data available |
| рН | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Density | : 1.1 g/cm ³ |
| Solubility | : In water, material is partially soluble. |
| Log Pow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : Product is not explosive. |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |
| | |

9.2. Other information

No additional information available

SECTION 10: STABILITY ANDREACTIVITY

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No polymerization.

10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Oxidizing agent. Strong acids.

10.6. Hazardous decomposition products

No decomposition if stored normally.

SECTION 11: TOXICOLOGICALINFORMATION

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11.1. Information on toxicological effects

| Acute toxicity |
|----------------|
|----------------|

- -

: Not classified

| 2-hydroxyethyl methacrylate (868-77-9) | |
|---|--|
| LD50 oral rat | 5050 mg/kg |
| LD50 dermal rabbit | > 3000 mg/kg |
| alkali fluorosilicates(Na) (16893-85-9) | |
| LD50 oral rat | 125 mg/kg |
| Skin corrosion/irritation | : Causes skinirritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| | |

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|--|---|
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity(single exposure) | : Not classified |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard | : Notclassified |
| SECTION 12: ECOLOGICAL INFORM | ATION |
| 12.1. Toxicity | |
| Ecology - general | : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. |
| 2-hydroxyethyl methacrylate (868-77-9) | |
| LC50 fish 1 | 227 mg/l (96 hours - Pimephales promelas) |
| alkali fluorosilicates(Na) (16893-85-9) | |
| LC50 fish 1 | 49 mg/l (96 hours - Lepomis macrochirus) |
| 12.2. Persistence and degradability | |
| OPTIBOND FL ADHESIVE | |
| Persistence and degradability | No data available. |
| 2-hydroxyethyl methacrylate (868-77-9) | |
| Biodegradation | 84 % (OECD 301D method) |
| 2.3. Bioaccumulative potential | |
| OPTIBOND FL ADHESIVE | |
| Bioaccumulative potential | No data. |
| 2-hydroxyethyl methacrylate (868-77-9) | |
| Bioconcentration factor (BCF REACH) | 1,3 - 1,5 |
| Log Pow | 0.47 |
| 12.4. Mobility in soil | |
| | |
| OPTIBOND FL ADHESIVE | |
| Ecology - soil | In water, material is partially soluble. |
| Ecology - soil | |
| Ecology - soil 12.5. Results of PBT and vPvB assessmer OPTIBOND FL ADHESIVE | nt |
| Ecology - soil 12.5. Results of PBT and vPvB assessmen OPTIBOND FL ADHESIVE This substance/mixture does not meet the PBT | riteria of REACH regulation, annex XIII |
| Ecology - soil 12.5. Results of PBT and vPvB assessmer OPTIBOND FL ADHESIVE | riteria of REACH regulation, annex XIII |
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| Ecology - soil 12.5. Results of PBT and vPvB assessmen OPTIBOND FL ADHESIVE This substance/mixture does not meet the PBT This substance/mixture does not meet the vPvE 12.6. Other adverse effects Other adverse effects Additional information SECTION 13: DISPOSALCONSIDER A | t criteria of REACH regulation, annex XIII criteria of REACH regulation, annex XIII None to ourknowledge. No other effects known |
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| Ecology - soil 12.5. Results of PBT and vPvB assessment OPTIBOND FL ADHESIVE This substance/mixture does not meet the PBT This substance/mixture does not meet the vPvE 12.6. Other adverse effects Other adverse effects Additional information SECTION 13: DISPOSALCONSIDERA 13.1. Waste treatment methods Regional legislation (waste) Waste treatment methods Waste disposal recommendations Ecology - waste materials European List of Waste (LoW) code SECTION 14: TRANSPORTINFORMA | Image: state of the second state of |
| Ecology - soil 12.5. Results of PBT and vPvB assessment OPTIBOND FL ADHESIVE This substance/mixture does not meet the PBT This substance/mixture does not meet the vPvE 12.6. Other adverse effects Other adverse effects Additional information SECTION 13: DISPOSALCONSIDERA 13.1. Waste treatment methods Regional legislation (waste) Waste treatment methods Waste disposal recommendations Ecology - waste materials European List of Waste (LoW) code SECTION 14: TRANSPORTINFORMA | Image: state of the second state of |
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| Ecology - soil 12.5. Results of PBT and vPvB assessment OPTIBOND FL ADHESIVE This substance/mixture does not meet the PBT This substance/mixture does not meet the vPvE 12.6. Other adverse effects Other adverse effects Other adverse effects Other adverse effects Additional information SECTION 13: DISPOSALCONSIDERA 13.1. Waste treatment methods Regional legislation (waste) Waste treatment methods Waste disposal recommendations Ecology - waste materials European List of Waste (LoW) code SECTION 14: TRANSPORTINFORMA In accordance with ADR / RID / IMDG / IATA / AE 14.1. UN number Not regulated for transport 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) | It criteria of REACH regulation, annex XIII criteria of REACH regulation, annex XIII : None to ourknowledge. : No other effects known TIONS : Dispose as hazardous waste. : Recover the product with absorbent material. Dispose of contents/container in accordance with licensed collector's sorting instructions. : Dispose in a safe manner in accordance with local/national regulations. : Avoid release to the environment. : 18 01 06* - chemicals consisting of or containing dangerous substances TION DN : Not applicable : Not applicable |
| Ecology - soil 12.5. Results of PBT and vPvB assessmer OPTIBOND FL ADHESIVE This substance/mixture does not meet the PBT This substance/mixture does not meet the vPvE 12.6. Other adverse effects Other adverse effects Other adverse effects Additional information SECTION 13: DISPOSALCONSIDERA 13.1. Waste treatment methods Regional legislation (waste) Waste treatment methods Waste disposal recommendations Ecology - waste materials European List of Waste (LoW) code SECTION 14: TRANSPORTINFORMA In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number Not regulated for transport 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) | Image: Second Stress |
| Ecology - soil 12.5. Results of PBT and vPvB assessment OPTIBOND FL ADHESIVE This substance/mixture does not meet the PBT This substance/mixture does not meet the vPvE 12.6. Other adverse effects Other adverse effects Other adverse effects Additional information SECTION 13: DISPOSALCONSIDERA 13.1. Waste treatment methods Regional legislation (waste) Waste treatment methods Waste disposal recommendations Ecology - waste materials European List of Waste (LoW) code SECTION 14: TRANSPORTINFORMA In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number Not regulated for transport 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IATA) Proper Shipping Name (RID) 14.3. Transport hazard class(es) | It criteria of REACH regulation, annex XIII criteria of REACH regulation, annex XIII : None to ourknowledge. : No other effects known TIONS : Dispose as hazardous waste. : Recover the product with absorbent material. Dispose of contents/container in accordance with licensed collector's sorting instructions. : Dispose in a safe manner in accordance with local/national regulations. : Avoid release to the environment. : 18 01 06* - chemicals consisting of or containing dangerous substances TION DN : Not applicable : Not applicable |
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| IMDG | | | |
| Transport hazard class(es) (IMDG) | : Notapplicable | | |
| ΙΑΤΑ | | | |
| Transport hazard class(es) (IATA) | : Notapplicable | | |
| RID | | | |
| Transport hazard class(es) (RID) | : Notapplicable | | |
| 14.4. Packing group | | | |
| Packing group (ADR) | : Not applicable | | |
| Packing group (IMDG) | : Not applicable | | |
| Packing group (IATA) | : Not applicable | | |
| Packing group (RID) | : Not applicable | | |
| 14.5. Environmental hazards | | | |
| Dangerous for the environment | : No | | |
| Marine pollutant | : No | | |
| Other information | : No supplementary information available | | |
| 14.6. Special precautions for user | | | |

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- Overland transport

No data available

- Transport by sea No data available

- Air transport

No data available

Rail transport

No data available

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

Not applicable

SECTION 15: REGULATORYINFORMATION

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

EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

National regulations

EC-regulation 453/2010/EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: OTHERINFORMATION

Indication of changes:

Hazards identification. Regulatory information.

| 1.3 | Contact information | Updated | |
|-----|---------------------|---------|--|
| | | | |

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| Data sources | : EC-regulation 453/2010/EC, 1907/2006/EC (REACH), 1272/2008/EC (CLF Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace | |
| Date of issue | : 19/09/2003 | |
| Revision date | : 06/06/2019 | |
| Supersedes | : 17/09/2015 | |
| Version | : 3.0 | |
| Full text of H- and EUH-statements: | | |

| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3 |
|---------------------------|---|
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Sensitisation — Skin, category 1 |
| H301 | Toxic if swallowed |
| H311 | Toxic in contact with skin |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H331 | Toxic if inhaled |

The information in this safety data sheet is based on information from the manufacturer/supplier, present European and national legislation, and presupposes that the product is used within the specified area of application.