

Safety Data Sheet Gel Etchant

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

Product identifier

Product name

: Gel Etchant

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

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 data sheet

Supplier Kem Italia S.r.l. Via Passanti, 332 84018 Scafati (SA) - Italy T +39-081-850-8311 E-mail: safety@kerrhawe.com

Manufacturer Kerr Corporation 1717 West Collins Avenue 92867 Orange – CALIFORNIA (U.S.A.) T 00-800-41-050-505 safety@kerrhawe.com

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

Emergency telephone number 1.4.

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

Genico	Organisation/Company	Address	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

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

Skin Corr. 1B

H314

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

Label elements

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

Hazard pictograms (CLP)



GHS05

Signal word (CLP)

Hazardous ingredients

: phosphoric acid ... %, orthophosphoric acid ... %

Hazard statements (CLP) Precautionary statements (CLP) : H314 - Causes severe skin burns and eye damage

P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves, eye protection
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Essenticon - SDS EU v2 EN (English)

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P310 - Immediately call a POISON CENTER or doctor/physician

P501 - Dispose of contents/container to an authorised waste collection point

The product is seen as a medical device and therefore not subject to labelling (EU-Extra phrases

regulation 1907/2006, article 2, paragraph 6c).

Other hazards

Other hazards not contributing to the

: None under normal conditions.

classification

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 ON INGREDIENTS

3.1. Substance

Not applicable

Mixture 3.2.

Numb	Product Magnifier		
phosphoric acid %, orthophosphoric acid %	(CAS No) 7664-38-2 (EC no) 231-633-2 (EC index no) 015-011-00-6 (REACH-no) 01-2119485924-24	36 - 39	Skin Corr. 1B, H314
pigment	(REACH-no) N/A		Not classified

Specific concentration limits:

Nerce	Product Identifier	
phosphoric acid %, orthophosphoric acid %	(CAS No) 7664-38-2 (EC no) 231-633-2 (EC index no) 015-011-00-6 (REACH-no) 01-2119485924-24	(10 =< C < 25) Skin Irrit. 2, H315 (10 =< C < 25) Eye Irrit. 2, H319 (C >= 25) Skin Corr. 1B, H314

Full text of H-phrases: see section 16

First-aid measures after skin contact

SECTION 4: FIRST AID MEASURES

Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. First-aid measures after inhalation Immediately call a POISON CENTER or doctor/physician.

: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Immediately call a POISON CENTER or doctor/physician. 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. Immediately call a POISON CENTER or

doctor/physician.

: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or First-aid measures after ingestion

doctor/physician.

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

: Causes severe skin burns and eye damage. Symptoms/injuries

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

No specific measures identified.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- : Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon
- dioxide. Water spray. Sand.

Unsuitable extinguishing media

: Do not use a heavy water stream.

Special hazards arising from the substance or mixture

Fire hazard

: Non flammable.

Explosion hazard

: Product is not explosive.

Hazardous decomposition products in case of

: Phosphoric acid mist. Phosphorus oxides.

ESSENTICON

5.3. Advice for firefighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting

: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General measures

 Wear appropriate personal protective equipment - see Section 8. Avoid contact with skin and eyes. Wear chemically protective gloves, lab coat or apron to prevent prolonged or

repeated skin contact.

For non-emergency personnel

Emergency procedures

: Evacuate unnecessary personnel.

For emergency responders

Protective equipment Emergency procedures : Equip cleanup crew with proper protection.

: Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment 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 diatornaceous earth as soon as possible.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling

: Do not eat, drink or smoke when using this product. Provide good ventilation in process area to prevent formation of vapour. Do not breathe vapours. Avoid contact with skin and

eyes.

Hygiene measures : Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Comply with applicable regulations.

Storage conditions

Storage area

: Keep container tightly closed. Keep only in the original container in a cool, well ventilated

place away from : Keep container closed when not in use.

Incompatible products

Oxidizing agent. Strong acids. Strong bases.Metals. Sulfites. Bases.

Incompatible materials

: Store at room temperature.

7.3. Specific end use(s)

Consult the supplier for further information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

ELIKOSTO PARA ELIKATORIO	eritinghosphoric scid // (7664-38-2)	A THE PARTY OF THE
United Kingdom	Local name	Orthophosphoric acid
United Kingdom	WEL TWA (mg/m³)	1 mg/m³
United Kingdom	WEL STEL (mg/m³)	2 mg/m³

8.2. Exposure controls

Appropriate engineering controls

: Ensure good ventilation of the work station.

Personal protective equipment

: Gloves. Safety glasses. Avoid all unnecessary exposure.

Hand protection

: Wear suitable gloves. Neoprene or nitrile rubber gloves. Layer thickness : 0,09mm. Breakthrough time : >480 min. STANDARD EN 374.

Eye protection

: Chemical goggles or face shield. STANDARD EN 166.

Skin and body protection

: Wear suitable protective clothing

Respiratory protection

Respiratory protection not applicable. In case of insufficient ventilation, wear suitable respiratory equipment. Extra personal protection: A/P2 filter respirator for organic vapour

and harmful dust. Standard EN 149.





Other information

: Do not eat, drink or smoke during use. Promptly remove any clothing that becomes wet or contaminated. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment. For even minor contact, immediately remove contaminated clothing. Wash skin thoroughly with mild soap

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties 9.1.

: Solid Physical state Appearance : gel. Colour : Violet.

Odour : none to slight.

Odour threshold : No data available : 0.5 - 1.5

: No data available Relative evaporation rate (butylacetate=1) : No data available Melting point

Freezing point : No data available : 100 °C **Boiling point**

Flash point : No data available : No data available Auto-ignition temperature : No data available Decomposition temperature Flammability (solid, gas) : Non flammable : 760 mm Hg Vapour pressure

Relative vapour density at 20 °C

: No data available Relative density

Density : 1.2 g/cm³

Solubility : In water, material soluble.

Log Pow : No data available Viscosity, kinematic : No data available : No data available Viscosity, dynamic Explosive properties : Product is not explosive. Oxidising properties : No data available : No data available **Explosive limits**

9.2. Other information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

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 dangerous reactions known under normal conditions of use.

Conditions to avoid 10.4.

Extremely high or low temperatures.

Incompatible materials 10.5.

Bases. Strong acids.

15/07/2015

Hazardous decomposition products

No decomposition if stored normally.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

: Not classified Acute toxicity

Grandente and Commente and and an artist	% (7664-38-2)
LD50 oral rat	1530 mg/kg
LD50 dermal rabbit	2740 mg/kg
LC50 inhalation rat (mg/l)	> 0.85 mg/l 1h
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
	pH: 0.5 - 1.5
Serious eye damage/irritation	: Serious eye damage, category 1, implicit
	pH: 0.5 - 1.5
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: ECOLOGICAL INFORMATION

12.1. **Toxicity**

symptoms

: The product is not considered harmful to aquatic organisms or to cause long-term adverse Ecology - general

phosphnic scid S. cathophosphoric scid S. (7864-38-2)		
LC50 fish 1	138 mg/l (96 hours - Gambusia affinis)	
EC50 Daphnia 1	3.4 mg/l (12 hours - Daphnia pulex)	

: Under normal conditions of use, no adverse effects to health have been observed. Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Potential adverse human health effects and

12.3. **Bioaccumulative potential**

phosphoris add _ %, orthophosphoric add ¼ (7064-38-2) +		
Log Pow	< 0	
Bioaccumulative potential	No bioaccumulation.	

12.4. Mobility in soil

Ecology - soil	Slightly soluble.
Out Pickent - 2	· · · · · · · · · · · · · · · · · · ·

12.5. Results of PBT and vPvB assessment

Cel Cartest
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

Other adverse effects 12.6.

Other adverse effects : None to our knowledge.

: No other effects known. Avoid release to the environment Additional information

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Regional legislation (waste) : Dispose as hazardous waste.

: Recover the product with absorbent material. Dispose of contents/container in accordance with licensed collector's sorting instructions. Waste treatment methods

Essenticon - SDS EU v2 EN (English)

: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to ... Waste disposal recommendations

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Ecology - waste materials

: Avoid release to the environment.

European List of Waste (LoW) code

: 18 01 06* - chemicals consisting of or containing dangerous substances

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 1805 UN-No. (IMDG) : 1805 UN-No. (IATA) : 1805 UN-No. (ADN) : 1805

UN-No. (RID) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR) : PHOSPHORIC ACID, SOLUTION
Proper Shipping Name (IMDG) : PHOSPHORIC ACID SOLUTION
Proper Shipping Name (IATA) : Phosphoric acid, solution
Proper Shipping Name (ADN) : PHOSPHORIC ACID, SOLUTION

Proper Shipping Name (RID) : Not applicable

Transport document description (ADR) : UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III, (E)
Transport document description (IMDG) : UN 1805 PHOSPHORIC ACID SOLUTION, 8, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8



IMDG

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8



IATA

Transport hazard class(es) (IATA) : 8
Hazard labels (IATA) : 8



ADN

Transport hazard class(es) (ADN) : 8
Danger labels (ADN) : 8



RID

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Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: 111
Packing group (IMDG)	: III
Packing group (IATA)	: III
Packing group (ADN)	: III
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	
- Overland transport	
Classification code (ADR)	: C1
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instruction (ADR)	ns : T4
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	
Hazard identification number (Kemler No.)	: 80
Orange plates	
Tunnel restriction code (ADR)	: E
TAC anda	
EAC code	: 2R
70 ES 1540111	: 2R
- Transport by sea	: 2R : 223
- Transport by sea Special provisions (IMDG)	
- Transport by sea Special provisions (IMDG) Limited quantities (IMDG)	: 223
- Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG)	: 223 : 5 L
- Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG)	: 223 : 5 L : E1
- Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG)	: 223 : 5 L : E1 : P001, LP01
- Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG)	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1
- Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG)	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1 : F-A
- Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage)	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1 : F-A : S-B
- Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG)	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1 : F-A : S-B : A
- Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) Properties and observations (IMDG)	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1 : F-A : S-B
- Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) Properties and observations (IMDG)	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1 : F-A : S-B : A : Miscible in water. Mildly corrosive to most metals.
- Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) Properties and observations (IMDG) - Air transport PCA Excepted quantities (IATA)	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1 : F-A : S-B : A : Miscible in water. Mildly corrosive to most metals.
- Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) Properties and observations (IMDG) - Air transport PCA Excepted quantities (IATA)	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1 : F-A : S-B : A : Miscible in water. Mildly corrosive to most metals.
- Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) Properties and observations (IMDG) - Air transport PCA Excepted quantities (IATA) PCA Limited quantity max net quantity (IAT	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1 : F-A : S-B : A : Miscible in water. Mildly corrosive to most metals.
- Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) Properties and observations (IMDG) - Air transport PCA Excepted quantities (IATA) PCA limited quantity max net quantity (IATPCA packing instructions (IATA)	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1 : F-A : S-B : A : Miscible in water. Mildly corrosive to most metals. : E1 : Y841 : N : 1L : 852
- Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) Properties and observations (IMDG) - Air transport PCA Excepted quantities (IATA) PCA limited quantity max net quantity (IATP) PCA packing instructions (IATA) PCA max net quantity (IATA)	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1 : F-A : S-B : A : Miscible in water. Mildly corrosive to most metals. : E1 : Y841 : N : 852 : 5L
- Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) Properties and observations (IMDG) - Air transport PCA Excepted quantities (IATA) PCA Limited quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA)	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1 : F-A : S-B : A : Miscible in water. Mildly corrosive to most metals. : E1 : Y841 :A) : 1L : 852 : 5L : 856
EAC code - Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) Properties and observations (IMDG) - Air transport PCA Excepted quantities (IATA) PCA limited quantity max net quantity (IAT PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA)	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1 : F-A : S-B : A : Miscible in water. Mildly corrosive to most metals. : E1 : Y841 : N : 852 : 5L

Rall transport

No data available

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

Not applicable

SECTION 15: REGULATORY INFORMATION

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: OTHER INFORMATION

Other information	: None.
Date of issue	: 27/11/2008
Revision date	: 15/07/2015
Supersedes	: 29/08/2013
Signature	: K. Dyreskog

Full text of H- and EUH-statements:

Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H314	Causes severe skin burns and eye damage

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.



Safety Data Sheet OPTIBOND SOLO PLUS

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

Product identifier

Product name

: OPTIBOND SOLO PLUS

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

Relevant identified uses

Main use category

: Professional use

Function or use category

: Dental materials.

Uses advised against

No additional information available

Details of the supplier of the safety data sheet

Supplier Kerr Italia S.r.l. Via Passanti, 332 84018 Scafati (SA) - Italy

T +39-081-850-8311 E-mail: safety@kerrhawe.com Manufacturer

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

E-mail: safety@kerrhawe.com

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

Emergency telephone number 1.4

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 Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

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

Flam. Sol. 1 H228 H315 Skin Irrit. 2 H319 Eye Irrit. 2 Skin Sens. 1

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)





GHS02

Signal word (CLP) Hazardous ingredients Hazard statements (CLP)

: Danger

: 2-hydroxyethyl methacrylate H228 - Flammable solid

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

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H319 - Causes serious eye irritation

Precautionary statements (CLP) P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P280 - Wear eye protection, protective gloves

P273 - Avoid release to the environment
P501 - Dispose of contents/container to an authorised waste collection point

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

Other hazards 2.3.

Other hazards not contributing to the

: None under normal conditions.

classification

Extra phrases

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 ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	*	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethanol, ethyl alcohol	(CAS No) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5 (REACH-no) 01-2119457610-43	20 - 25	Flam. Liq. 2, H225
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) 01-2119490169-29	>= 0,8 - <1,2	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

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: Get medical

advice/attention.

First-aid measures after eve 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.

Symptoms/injuries after eye contact

: Eye irritation.

Indication of any immediate medical attention and special treatment needed

No specific measures identified.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media 5.1.

Suitable extinguishing media

: Use extinguishing media appropriate for surrounding fire. Foam, carbon dioxide (CO2) and

powder.

Special hazards arising from the substance or mixture

Fire hazard

: Flammable solid.

Hazardous decomposition products in case of fire

: Carbon dioxide. Carbon monoxide. Fluorides.

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 respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General measures

: Do not eat, drink or smoke in areas where product is used. Avoid contact with skin and

For non-emergency personnel

Emergency procedures

: Evacuate unnecessary personnel.

For emergency responders

No additional information available

Environmental precautions

Discharging into rivers and drains is forbidden.

Methods and material for containment and cleaning up

For containment

: Collect all waste in suitable and labelled containers and dispose according to local

legislation

Methods for cleaning up

: Large spills: scoop solid spill into closing containers. Take up liquid spill into absorbent

material. Notify authorities if product enters sewers or public waters

Reference to other sections 6.4.

For further information refer to section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling 7.1

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.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep only in original container. Keep container tightly closed.

Incompatible products

: Oxidizing agent. Strong acids. : Oxidizing substances

Incompatible materials

Storage area

: Store in a well-ventilated place.

Specific end use(s) 7.3.

Consult the supplier for further information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters 8.1.

ethanol, ethyl alcohol	(64-17-5)	
United Kingdom	Local name	Ethanol
United Kingdom	WEL TWA (mg/m³)	1920 mg/m³
United Kingdom	WEL TWA (ppm)	1000 ppm

8.2. **Exposure controls**

Appropriate engineering controls

: Ensure good ventilation of the work station.

Personal protective equipment

Hand protection

: Wear suitable gloves. Nitrile rubber gloves. Layer thickness : 0,09mm. Breakthrough time :

>480 min. STANDARD EN 374.

Eve protection

: Safety glasses. STANDARD EN 166.

Skin and body protection

: Wear suitable protective clothing

Respiratory protection

: Respiratory protection not applicable. In case of insufficient ventilation, wear suitable respiratory equipment. Wear a respirator conforming to EN140 with Type A/P2 filter or





Other information

: Do not eat, drink or smoke during use. Wash hands and other exposed areas with mild soap

and water before eating, drinking or smoking and when leaving work.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Paste.
Colour : Pale yellow.
Odour : Fruity.

Odour threshold : No data available pH : 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 : 18 °C

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 : 1.25 g/cm³

Solubility : Material insoluble in water.

Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

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 dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

No decomposition if stored normally.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity : Ingestion of large amounts may cause discomfort. Uncured material may be harmful if swallowed.

ethanol, ethyl alcohol (64-17-5)	
LD50 oral rat	7060 mg/kg
LD50 dermal rabbit	> 20000 mg/m³
LC50 inhalation rat (Vapours - mg/l/4h)	124.7 mg/l/4h
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 skin irritation. Serious eye damage/irritation : Causes serious eye irritation. Respiratory or skin sensitisation May cause an allergic skin reaction.

: Not classified Germ cell mutagenicity Carcinogenicity : Not classified : Not classified Reproductive toxicity Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified exposure) : Not classified Aspiration hazard

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

: Presents no particular risk to the environment, provided the disposal requirements (see section 13) and national or local regulations are complied with. Ecology - general

ethanol, ethyl alcohol (64-17-5	
LC50 fish 1	13500 mg/l (96 hours - Pimephales promelas)
EC50 Daphnia 1	54000 mg/l (48 hours - Daphnia magna)
IC50 algae	> 10.9 mg/l (IC50, 72 hours - Skeletonema costatum)
2-hydroxyethyl methacrylate (868-77-9)
LC50 fish 1	227 mg/l (96 hours - Pimephales promelas)
alkali fluorosificates(Na) (1689	3-85-0)
LC50 fish 1	49 mg/l (96 hours - Lepomis macrochirus)

Persistence and degradability 12.2.

OPTIBOND SOLO PLUS	
Persistence and degradability	No data available.
ethanol, ethyl alcohol (64-17-5)	
BOD (% of ThOD)	≥ 0.4 % ThOD BOD5/COD
Biodegradation	85 % (28 days, method: OECD 301D)
2-hydroxyethyl methacrylate (868-77-	9
Biodegradation	84 % (OECD 301D method)

12.3. **Bioaccumulative potential**

OPTIBOND SOLO PLUS	
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

Ecology - soil	Slightly soluble.	
OPTIBOND SOLO PLUS		

Results of PBT and vPvB assessment 12.5.

OPTIBOND SOLO PLUS	
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	

12.6. Other adverse effects

Other adverse effects : None to our knowledge. Additional information : No other effects known

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods 13.1.

Regional legislation (waste) : Dispose as hazardous waste.

: Recover the product with absorbent material. Dispose of contents/container in accordance Waste treatment methods

with licensed collector's sorting instructions.

: Dispose in a safe manner in accordance with local/national regulations. Waste disposal recommendations

Ecology - waste materials Avoid release to the environment.

: 18 01 06* - chemicals consisting of or containing dangerous substances European List of Waste (LoW) code

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 1170
UN-No. (IMDG) : 1170
UN-No. (IATA) : 1170
UN-No. (ADN) : 1170
UN-No. (RID) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Proper Shipping Name (IMDG) : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

Proper Shipping Name (IATA) : Ethyl alcohol solution

Proper Shipping Name (ADN) : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

Proper Shipping Name (RID) : Not applicable

Transport document description (ADR) : UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) (ethanol, ethyl alcohol(64-

17-5)), 3, III, (D/E)

Transport document description (IMDG) : UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3
Danger labels (ADR) : 3



IMDG

Transport hazard class(es) (IMDG) : 3
Danger labels (IMDG) : 3



IATA

Transport hazard class(es) (IATA) : 3
Hazard labels (IATA) : 3



ADN

Transport hazard class(es) (ADN) : 3
Danger labels (ADN) : 3



RID

Transport hazard class(es) (RID) : Not applicable

15/07/2015 OPTIBOND SOLO PLUS Packing group 14.4. : 111 Packing group (ADR) : 111 Packing group (IMDG) : 111 Packing group (IATA) : 111 Packing group (ADN) Packing group (RID) : Not applicable **Environmental hazards** 14.5. : No Dangerous for the environment : No Marine pollutant Other information : No supplementary information available 14.6. Special precautions for user - Overland transport : F1 Classification code (ADR) Special provisions (ADR) : 144, 601 Limited quantities (ADR) : 51 Excepted quantities (ADR) : E1 Packing instructions (ADR) : P001, IBC03, LP01, R001 Mixed packing provisions (ADR) : MP19 Portable tank and bulk container instructions : T2 Portable tank and bulk container special : TP1 provisions (ADR) : LGBF Tank code (ADR) Vehicle for tank carriage : FL Transport category (ADR) : 3 Special provisions for carriage - Packages : V12 (ADR) Special provisions for carriage - Operation : S2 (ADR) Hazard identification number (Kemler No.) : 30 Orange plates Tunnel restriction code (ADR) : D/E EAC code : •2YE - Transport by sea Special provisions (IMDG) : 144, 223 Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 : P001, LP01 Packing instructions (IMDG) IBC packing instructions (IMDG) : IBC03 : T2 Tank instructions (IMDG) : TP1 Tank special provisions (IMDG) EmS-No. (Fire) : F-E : S-D EmS-No. (Spillage) Stowage category (IMDG) : A : Colourless, volatile liquids.Pure ETHANOL: flashpoint 13°C c.c. Explosive limits: 3.3% to 19% Miscible with water. Properties and observations (IMDG) - Air transport PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y344 PCA limited quantity max net quantity (IATA) : 10L PCA packing instructions (IATA) : 355

PCA max net quantity (IATA)

CAO packing instructions (IATA) CAO max net quantity (IATA) : 60L : 366

: 220L

Special provisions (IATA)

: A3, A58, A180

ERG code (IATA)

: 3L

Rail transport

No data available

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

Not applicable

SECTION 15: REGULATORY INFORMATION

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.

Chemical safety assessment

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

SECTION 16: OTHER INFORMATION

: 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. Data sources

: 15/07/2015 Date of issue Revision date : 15/07/2015

Signature : K. Dyreskog

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
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Sol. 1	Flammable solids, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
H225	Highly flammable liquid and vapour
H228	Flammable solid
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.