



Safety Data Sheet LIFE CATALYST

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

1.1. Product identifier

Product name : LIFE CATALYST

1.2. 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

1.3. Details of the supplier of the safety datasheet

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: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

Acute Tox. 4 (Oral) H302

Eye Dam. 1 H318

Full text of hazard classes and H-statements : see section 16

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

GHS07

Signal word (CLP) : Danger

Hazardous ingredients : Methyl salicylate, 2,2-dimethylpropane-1,3-diol

Hazard statements (CLP) : H302 - Harmful if swallowed

H318 - Causes serious eye damage

Precautionary statements (CLP) : P264 - Wash hands, forearms and face thoroughly after handling

P270 - Do not eat, drink or smoke when using this product.

P280 - Wear eye protection, protective gloves

P301+P312 - IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell

P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor
 P330 - Rinse mouth
 P501 - Dispose of contents/container to ...

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

2.3. Other hazards

Other hazards not contributing to the 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 ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Methyl salicylate	(CAS No) 119-36-8 (EC no) 204-317-7 (REACH-no) 01-2119515671-44	=>35-<50	Acute Tox. 4 (Oral), H302
barium sulphate	(CAS No) 7727-43-7 (EC no) 231-784-4 (REACH-no) 01-2119491274-35	=>35-<50	Not classified
titanium dioxide	(CAS No) 13463-67-7 (EC no) 236-675-5 (REACH-no) 01-2119489379-17	=>10-<15	Not classified
2,2-dimethylpropane-1,3-diol	(CAS No) 126-30-7 (EC no) 204-781-0 (REACH-no) 01-2119480396-30	=>5-<10	Eye Dam. 1, H318

Full text of H-statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures general : Move to fresh air. If medical advice is needed, have product container or label at hand.
 First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 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 eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
 First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

Symptoms/injuries after skin contact : Redness, pain. Blisters.
 Symptoms/injuries after eye contact : Causes serious eye damage. Redness, pain.
 Symptoms/injuries after ingestion : Harmful if swallowed. May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

No specific measures identified.

SECTION 5: FIREFIGHTING MEASURES

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 substance or mixture

Fire hazard : Non flammable.
 Explosion hazard : Product is not explosive.
 Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. Sulphur oxides. metallic oxide.

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**6.1. Personal precautions, protective equipment and emergency procedures**

- General measures : Wear appropriate personal protective equipment - see Section 8. Avoid all eye and skin contact and do not breathe vapour and mist. Do not eat, drink or smoke in areas where product is used.

For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

For emergency responders

No additional information available

6.2. Environmental precautions

Discharging into rivers and drains is forbidden.

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 diatomaceous 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 : Avoid contact with skin and eyes.
 Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Remove contaminated clothes.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in dry protected location to prevent any moisture contact. Keep container tightly closed. Store in original container. Keep away from food, drink and animal feeding stuffs. Store in a well-ventilated place. Keep cool.
 Incompatible materials : Oxidizing substances.

7.3. Specific end use(s)

Consult the supplier for further information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

barium sulphate (7727-43-7)		
United Kingdom	Local name	Barium sulphate
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ inhalable dust 4 mg/m ³ respirable dust
titanium dioxide (13463-67-7)		
United Kingdom	Local name	Titanium dioxide
United Kingdom	WEL TWA (mg/m ³)	4 mg/m ³ respirable 10 mg/m ³ total inhalable

8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.
 Personal protective equipment : Gloves. Safety glasses.

Hand protection	: Wear suitable gloves. Neoprene or nitrile rubber gloves. Layer thickness : 0,1 mm. Breakthrough time : > 60 minutes. STANDARD EN 374.
Eye protection	: Use splash goggles when eye contact due to splashing is possible. STANDARD EN 166.
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation



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.
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Paste.
Colour	: Beige. Off-white. light pink.
Odour	: characteristic.
Odour threshold	: No dataavailable
pH	: No dataavailable
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No dataavailable
Freezing point	: No dataavailable
Boiling point	: No dataavailable
Flash point	: No dataavailable
Auto-ignition temperature	: No dataavailable
Decomposition temperature	: No dataavailable
Flammability (solid, gas)	: No dataavailable
Vapour pressure	: No dataavailable
Relative vapour density at 20 °C	: No dataavailable
Relative density	: 2
Solubility	: Material insoluble in water.
Log Pow	: No dataavailable
Viscosity, kinematic	: No dataavailable
Viscosity, dynamic	: No dataavailable
Explosive properties	: Product is not explosive.
Oxidising properties	: Non flammable.
Explosive limits	: No data available

9.2. Other information

Additional information	: None to our knowledge
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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 polymerization.

10.4. Conditions to avoid

Keep away from heat and direct sunlight.

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 : Oral: Harmful if swallowed.
May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract

ATE CLP (oral)	1774.000 mg/kg bodyweight
Methyl salicylate (119-36-8)	
LD50 oral rat	887 mg/kg bodyweight
LD50 dermal rat	> 2500 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg bw/day
barium sulphate (7727-43-7)	
LD50 oral rat	> 20000 mg/kg
titanium dioxide (13463-67-7)	
LD50 oral rat	> 100000 mg/kg
2,2-dimethylpropane-1,3-diol (126-30-7)	
LD50 oral rat	> 3200 mg/kg bodyweight

Skin corrosion/irritation : Not classified
 Serious eye damage/irritation : Causes serious eye damage.
 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**

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Methyl salicylate (119-36-8)	
LC50 fish 1	10 - 100 mg/l 96h
EC50 Daphnia 1	10 - 100 mg/l 48h
IC50 algae	0.885 mg/l 72h
barium sulphate (7727-43-7)	
LC50 fish 1	> 7600 mg/l (96 hours)
EC50 Daphnia 1	> 32 mg/l (48 hours - Daphnia magna)
titanium dioxide (13463-67-7)	
LC50 fish 1	> 1000 mg/l (96 hours - Fundulus heteroclitus)
EC50 Daphnia 1	> 1000 mg/l (48 hours - Daphnia magna)
2,2-dimethylpropane-1,3-diol (126-30-7)	
LC50 fish 1	> 1000 mg/l (96 hours - Oryzias latipes)
EC50 Daphnia 1	> 500 mg/l (48 hours - Daphnia magna)
IC50 algae	> 500 mg/l 72 hours - Scenedesmus subspicatus

12.2. Persistence and degradability

LIFE CATALYST	
Persistence and degradability	No data available.
2,2-dimethylpropane-1,3-diol (126-30-7)	
Biodegradation	5 % 35 days (OECD 301E method)

12.3. Bioaccumulative potential

LIFE CATALYST	
Bioaccumulative potential	Low bioaccumulation potential.
Methyl salicylate (119-36-8)	
Bioconcentration factor (BCF REACH)	46
Log Pow	1.59

2,2-dimethylpropane-1,3-diol (126-30-7)

Bioconcentration factor (BCF REACH)	< 9
Log Pow	-0.15

12.4. Mobility in soil**LIFE CATALYST**

Ecology - soil	Material insoluble in water.
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12.5. Results of PBT and vPvB assessment**LIFE CATALYST**

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**13.1. Waste treatment methods**

Regional legislation (waste) : Dispose as hazardous waste.

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

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

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

Not regulated for transport

14.2. UN proper shipping name**14.3. Transport hazard class(es)****14.4. Packing group****14.5. Environmental hazards**

Dangerous for the environment : No

Other information : No supplementary information available

14.6. Special precautions for user**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

Indication of changes:

Regulatory information.

1.3	Contact information	Updated	
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Date of issue : 15/04/2013
Revision date : 6/6/2019
Supersedes : 15/10/2015
Version : 4.0

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H302	Harmful if swallowed
H318	Causes serious 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.