



Safety Data Sheet HERCULITE XRV ULTRA

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

1.1. Product identifier

Product name : HERCULITE XRV ULTRA

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 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](mailto: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](mailto:safety@kerrhawe.com)

Contact person : safety@kerrhawe.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]

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 :

mequinol, 4-methoxyphenol, hydroquinone monomethyl ether, dibenzoyl peroxide, benzoyl peroxide, 2,2-bis(acryloyloxymethyl)butyl acrylate, trimethylolpropane triacrylate

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

P264 - Wash hands, forearms and face thoroughly after handling
 P272 - Contaminated work clothing should not be allowed out of the workplace
 P280 - Wear eye protection, protective gloves
 P302+P352 - IF ON SKIN: Wash with plenty of soap and water
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 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
 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] |
|--|---|---------|---|
| 2,2-bis(acryloyloxymethyl)butyl acrylate, trimethylolpropane triacrylate | (CAS No) 15625-89-5 (EC no) 239-701-3 (EC index no) 607-111-00-9 (REACH-no) 01-2119489896-11 | =>9-<12 | Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317 |
| mequinol, 4-methoxyphenol, hydroquinone monomethyl ether | (CAS No) 150-76-5 (EC no) 205-769-8 (EC index no) 604-044-00-7 (REACH-no) 01-2119541813-40 | < 1 | Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| dibenzoyl peroxide, benzoyl peroxide | (CAS No) 94-36-0 (EC no) 202-327-6 (EC index no) 617-008-00-0 (REACH-no) 01-2119511472-50 | < 1 | Org. Perox. B, H241 Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| titanium dioxide | (CAS No) 13463-67-7 (EC no) 236-675-5 (REACH-no) 01-2119489379-17 | | Not classified |
| methacrylate ester monomer | | | Not classified |
| pigment | (REACH-no) N/A | | Not classified |

Full text of H-statements: 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 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). Do NOT induce vomiting. Get medical advice/attention.

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 medical attention and special treatment needed

Treat symptomatically.

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.

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 : 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 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 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Hygiene measures : Do not eat, drink or smoke when using this product.

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. Store in a well-ventilated place. Keep cool. Store in a dry place. Store in a closed container.
- Incompatible products : Oxidizing agent. Strong acids.
- Incompatible materials : Oxidizing substances. Organic peroxides. reducing materials. Amines.

7.3. Specific end use(s)

Consult the supplier for further information.

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

| dibenzoyl peroxide, benzoyl peroxide (94-36-0) | | |
|--|------------------------------|---------------------|
| United Kingdom | Local name | Dibenzoyl peroxide |
| United Kingdom | WEL TWA (mg/m ³) | 5 mg/m ³ |

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 | : | Nitrile rubber gloves. PVC gloves. Neoprene. Breakthrough time : 6 (> 480 minutes). Layer thickness : 0,2 - 0,4 mm. STANDARD EN 374. |
| Eye protection | : | Safety glasses. 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | | |
|--|---|------------------------------|
| Physical state | : | Liquid |
| Appearance | : | Paste. |
| Colour | : | Various. |
| 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 | : | 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 | : | 2.4 g/cm ³ |
| Solubility | : | Material insoluble in water. |
| 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 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

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

10.5. Incompatible materials

Oxidizing agent. reducing materials. Organic peroxides. Amines.

10.6. Hazardous decomposition products

No decomposition if stored normally.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

Acute toxicity : Not classified
Uncured material may be harmful if swallowed.

| dibenzoyl peroxide, benzoyl peroxide (94-36-0) | |
|--|--|
| LD50 oral rat | 7710 mg/kg |
| LC50 inhalation rat (Vapours - mg/l/4h) | 7 mg/l/4h |
| 2,2-bis(acryloyloxymethyl)butyl acrylate, trimethylolpropane triacrylate (15625-89-5) | |
| LD50 oral rat | 5709 mg/kg |
| LD50 dermal rabbit | 5170 mg/kg |
| titanium dioxide (13463-67-7) | |
| LD50 oral rat | > 100000 |
| LD50 dermal rabbit | > 10000 |
| LC50 inhalation rat (Dust/Mist - mg/l/4h) | > 4.68 mg/l/4h |
| Skin corrosion/irritation | : Causes skin irritation. |
| 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 |
| 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.

| dibenzoyl peroxide, benzoyl peroxide (94-36-0) | |
|--|---|
| LC50 fish 1 | 0.24 mg/l 96h (Oryzias latipes) |
| EC50 Daphnia 1 | 0.07 mg/l 48h (Daphnia magna) |
| 2,2-bis(acryloyloxymethyl)butyl acrylate, trimethylolpropane triacrylate (15625-89-5) | |
| LC50 fish 1 | 3.97 mg/l |
| EC50 Daphnia 1 | < 23.2 mg/l (48 hours - Daphnia magna) |
| IC50 algae | 2.42 mg/l (IC50, 72 hours) |
| titanium dioxide (13463-67-7) | |
| LC50 fish 1 | > 1000 (96 hours - Fundulus heteroclitus) |
| EC50 Daphnia 1 | > 1000 (48 hours - Daphnia magna) |

12.2. Persistence and degradability

| HERCULITE XRV ULTRA | |
|---|--------------------|
| Persistence and degradability | No data available. |
| dibenzoyl peroxide, benzoyl peroxide (94-36-0) | |
| Biodegradation | 84 % MITI-test |

12.3. Bioaccumulative potential

| HERCULITE XRV ULTRA | |
|--|----------|
| Bioaccumulative potential | No data. |
| dibenzoyl peroxide, benzoyl peroxide (94-36-0) | |
| Bioconcentration factor (BCF REACH) | 5.62 |
| Log Pow | 3.71 |
| 2,2-bis(acryloyloxymethyl)butyl acrylate, trimethylolpropane triacrylate (15625-89-5) | |
| BCF fish 1 | 31,62 |
| Bioconcentration factor (BCF REACH) | 31.62 |

12.4. Mobility in soil**HERCULITE XRV ULTRA**

| | |
|----------------|------------------------------|
| Ecology - soil | Material insoluble in water. |
|----------------|------------------------------|

12.5. Results of PBT and vPvB assessment**HERCULITE XRV ULTRA**

| |
|--|
| 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

Proper Shipping Name (ADR) : Not applicable
 Proper Shipping Name (IMDG) : Not applicable
 Proper Shipping Name (IATA) : Not applicable
 Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)**ADR**

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

IMDG

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

IATA

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

RID

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

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**- 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 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:

Hazards identification. Regulatory information.

| | | | |
|-----|--|---------|---|
| 2.1 | Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] | Removed | |
| 2.1 | Hazard statements (CLP) | Added | Skin Irrit. 2: H315, Eye Irrit. 2: H319 |
| 2.2 | Hazard statements (CLP) | Added | Skin Irrit. 2: H315, Eye Irrit. 2: H319 |
| 3.2 | Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] | Removed | |

| | |
|---------------|---|
| Data sources | : 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. |
| Date of issue | : 19/03/2009 |
| Revision date | : 17/09/2015 |
| Supersedes | : 13/05/2013 |
| Signature | : A. Åsebø Murel |

Full text of H- and EUH-statements:

| | |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Org. Perox. B | Organic Peroxides, Type B |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Sensitisation — Skin, Category 1 |
| H241 | Heating may cause a fire or explosion |
| H302 | Harmful if swallowed |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |

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.