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

1.1. Product identifier
Product name: Take 1 Advanced Base

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

Relevant identified uses
Main use category: Professional use
Use of the substance/mixture: Preparation intended for dental medical use

Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier: KERRHAWE S.A.
Via Strecce n°4
6934 Bioggio (Switzerland)
T 00-800-41-050-505

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

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

<table>
<thead>
<tr>
<th>Country</th>
<th>Organisation/Company</th>
<th>Address</th>
<th>Emergency number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gibraltar</td>
<td>GHA Call Centre</td>
<td>Harbour Views Road</td>
<td>+350 200 79700</td>
</tr>
<tr>
<td></td>
<td>Zone 2, Level 3, St Bernard’s Hospital</td>
<td></td>
<td>+350 200 72266</td>
</tr>
<tr>
<td>Ireland</td>
<td>National Poisons Information Centre</td>
<td>PO Box 1297</td>
<td>+353 1 809 2566</td>
</tr>
<tr>
<td></td>
<td>Beaumont Hospital</td>
<td>Beaumont Road</td>
<td>(Healthcare professionals-24/7)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>+353 1 809 2166 (public,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>8am - 10pm, 7/7)</td>
</tr>
<tr>
<td>Malta</td>
<td>Medicines &amp; Poisons Info Office</td>
<td>Mater Dei Hospital</td>
<td>+356 2545 6504</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MSD Msida</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service</td>
<td>Claremont Place</td>
<td>+44 191 2606182/44 191 2606190</td>
</tr>
<tr>
<td></td>
<td>(Newcastle Unit)</td>
<td>Newcastle-upon-Tyne, Newcastle</td>
<td>24H</td>
</tr>
</tbody>
</table>

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

Eye Dam. 1: H318
STOT RE 2: H373
Aquatic Chronic 3: H412

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, GHS08
Signal word (CLP): Danger
Hazardous ingredients: Nonylphenol, branched, ethoxylated; Quartz (SiO2)
Hazard statements (CLP): H318 - Causes serious eye damage; H373 - May cause damage to organs through prolonged or repeated exposure; H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (CLP): P260 - Do not breathe mist, spray, vapours; P273 - Avoid release to the environment; P280 - Wear eye protection; P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing; P310 - Immediately call a doctor, a POISON CENTER; P314 - Get medical advice/attention if you feel unwell.

Extra phrases: The product is seen as a medical device and therefore not subject to labelling (EU-regulation 1272/2008, article 1, paragraph 5d).
A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis.

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. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amorphous silica substance with national workplace exposure limit(s) (GB, IE)</td>
<td>(CAS-No.) 67762-90-7 (EC-No.) 614-122-2 (REACH-no) N/A</td>
<td>&lt; 50</td>
<td>Not classified</td>
</tr>
<tr>
<td>Quartz (SiO2)</td>
<td>(CAS-No.) 14808-60-7 (EC-No.) 238-878-4 (REACH-no) N/A</td>
<td>&lt; 50</td>
<td>STOT RE 2, H373</td>
</tr>
<tr>
<td>Nonylphenol, branched, ethoxylated</td>
<td>(CAS-No.) 68412-54-4 (EC-No.) 500-209-1 (REACH-no) 01-2119485218-31</td>
<td>&lt; 10</td>
<td>Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411</td>
</tr>
</tbody>
</table>

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. Get medical attention if any discomfort continues. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation: Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact: Gently wash with plenty of soap and water. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact: 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.
First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/effects: Causes damage to organs.
Symptoms/effects after eye contact: Causes serious eye damage.

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, Dry powder, Carbon dioxide, Water spray, Sand.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture
Fire hazard: Non flammable.
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. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting: Do not enter fire area without proper personal protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
General measures: Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8.

For non-emergency personnel
Protective equipment: See Heading 8.
Emergency procedures: Evacuate unnecessary personnel.

For emergency responders
Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

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

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections
For further information refer to section 13. See Heading 8. Exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing mist, spray, vapours.

Hygiene measures: Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities
Incompatible materials: Sources of ignition. Direct sunlight.

7.3. Specific end use(s)
No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>Local name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amorphous silica (67762-90-7)</td>
<td>Ireland</td>
<td>Silica, amorphous respirable dust</td>
</tr>
<tr>
<td></td>
<td>Ireland</td>
<td>OEL (8 hours ref) (mg/m³)</td>
</tr>
<tr>
<td></td>
<td>United Kingdom</td>
<td>Local name</td>
</tr>
<tr>
<td></td>
<td>United Kingdom</td>
<td>WEL TWA (mg/m³)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quartz (SiO2) (14808-60-7)</td>
<td>EU</td>
<td>Local name</td>
</tr>
<tr>
<td></td>
<td>EU</td>
<td>Notes</td>
</tr>
</tbody>
</table>
Quartz (SiO2) (14808-60-7)

<table>
<thead>
<tr>
<th>Country</th>
<th>Local name</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ireland</td>
<td>Quartz, respirable dust, (see Silica, crystalline)</td>
<td></td>
</tr>
<tr>
<td>Ireland</td>
<td>OEL (8 hours ref) (mg/m³)</td>
<td>0.1 mg/m³</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>Local name</td>
<td>Silica</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>WEL TWA (mg/m³)</td>
<td>0.1 mg/m³ respirable crystalline</td>
</tr>
</tbody>
</table>

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: Avoid all unnecessary exposure. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment. Protective goggles. Gloves.


Eye protection: Chemical goggles or safety glasses. STANDARD EN 166.

Skin and body protection: Not required

Respiratory protection: Not required. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Extra personal protection: P2 filter respirator for harmful particles. Standard EN 143.

Other information: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Paste.</td>
</tr>
<tr>
<td>Colour</td>
<td>Various.</td>
</tr>
<tr>
<td>Odour</td>
<td>slight, Fruity.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>Not determined</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>Not determined</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Non flammable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>Not determined</td>
</tr>
<tr>
<td>Relative density</td>
<td>= 1.25</td>
</tr>
<tr>
<td>Solubility</td>
<td>insoluble in water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>Not determined</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>Not determined</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>Not determined</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Non flammable.</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

9.2. Other information

Additional information: None to our knowledge.
SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
No incompatible groups noted.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No polymerization.

10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

10.6. Hazardous decomposition products
No decomposition if stored and used normally. fume. Carbon monoxide. Carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Not classified</th>
</tr>
</thead>
</table>

**Nonylphenol, branched, ethoxylated (68412-54-4)**

<table>
<thead>
<tr>
<th>LD50 oral rat</th>
<th>1980 mg/kg</th>
</tr>
</thead>
</table>

Skin corrosion/irritation: Not classified
Based on available data, the classification criteria are not met
pH: Not determined

Serious eye damage/irritation: Causes serious eye damage.
pH: Not determined

Respiratory or skin sensitisation: Not classified
Based on available data, the classification criteria are not met

Germ cell mutagenicity: Not classified
Based on available data, the classification criteria are not met

Carcinogenicity: Not classified
Based on available data, the classification criteria are not met

Reproductive toxicity: Not classified
Based on available data, the classification criteria are not met

STOT-single exposure: Not classified
Based on available data, the classification criteria are not met

STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Not classified
Based on available data, the classification criteria are not met

Potential adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity
Ecology - water: Harmful to aquatic life with long lasting effects.

**Nonylphenol, branched, ethoxylated (68412-54-4)**

<table>
<thead>
<tr>
<th>LC50 fish 1</th>
<th>10 - 100 mg/l (96 hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 Daphnia 1</td>
<td>10 - 100 (48 hours - Daphnia magna)</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

**Take 1 Advanced Base**
Persistence and degradability: May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

**Take 1 Advanced Base**
Log Pow: Not determined
Bioaccumulative potential: Not established.
12.4. Mobility in soil

Take 1 Advanced Base

Ecology - soil: insoluble in water.

12.5. Results of PBT and vPvB assessment

Take 1 Advanced Base

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. Avoid release to the environment

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Regional legislation (waste): Dispose as hazardous waste.

Waste treatment methods: Do not discharge into drains.

Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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

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

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


15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: OTHER INFORMATION

Indication of changes:
Composition/information on ingredients. Physical and chemical properties. Hazards identification.
<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]</td>
<td>Removed</td>
</tr>
<tr>
<td>2.1</td>
<td>Classification according to Regulation (EC) No. 1272/2008 [CLP]</td>
<td>Modified</td>
</tr>
<tr>
<td>2.2</td>
<td>Labelling according to Regulation (EC) No. 1272/2008 [CLP]</td>
<td>Modified</td>
</tr>
<tr>
<td>3.2</td>
<td>Composition/information on ingredients</td>
<td>Modified</td>
</tr>
<tr>
<td>3.2</td>
<td>Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]</td>
<td>Removed</td>
</tr>
<tr>
<td>9.1</td>
<td>Physical and chemical properties</td>
<td>Modified</td>
</tr>
</tbody>
</table>

Data sources:
- Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO).
- Workplace exposure limits.

Other information:
- None.

Date of issue: 20/05/2009
Revision date: 30/08/2017
Supersedes: 30/09/2014
Date of total revision: 30/08/2017
Version: 4.0
Signature: A. Åsebø Murel

Full text of H- and EUH-statements:

<table>
<thead>
<tr>
<th>H-Statement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral), Category 4</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 2</td>
</tr>
<tr>
<td>Aquatic Chronic 3</td>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 3</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation, Category 1</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation, Category 2</td>
</tr>
<tr>
<td>STOT RE 2</td>
<td>Specific target organ toxicity — Repeated exposure, Category 2</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

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.