VITA YZ HT SHADE LIQUID INDICATOR

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 PRODUCT IDENTIFIER

1.1.1 COMMERCIAL PRODUCT NAME

VITA YZ HT SHADE LIQUID INDICATOR

1.1.2 ITEM NUMBER

EZ0CY8110

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE

1.2.1 IDENTIFIED USES

Colorant for Colouring liquid VITA YZ HT SHADE LIQUIDS

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

1.3.1 PRODUCER

Zirkonzahn GmbH, An der Ahr 7, IT 39030 Gais

1.3.2 SUPPLIER

VITA Zahnfabrik H. Rauter GmbH & Co. KG
Postfach 1338 Tel.: 07761/562-0
D 79704 Bad Säckingen Fax: 07761/562299
E-mail: info@vita-zahnfabrik.com

1.3.3 TOX EMERGENCY NUMBER

+49-(0)7761-562-0 (Mon. – Fri. 08 am – 6 pm)

2. POSSIBLE DANGERS

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

2.1.1 CLASSIFICATION ACCORDING TO REGULATION (EG) NO. 1272/2008

The product is not subject to labelling according to the Dangerous Materials Regulation (GefStoff) and the EU directives.

2.1.2 ADDITIONAL INFORMATION

The product falls under the EC Directive 93/42 for medical products. The device is classified and labelled according to GefStoff / GHS guidelines.

2.2 LABEL ELEMENTS

2.2.1 LABELLING ACCORDING TO REGULATION (EC) NO 1272/2008

2.2.1.1 HAZARD PICTOGRAMS

Not subject to labelling.

2.2.1.2 SIGNALWORD

Not applicable.

2.2.1.3 HAZARD STATEMENTS

None.

2.2.1.4 PRECAUTIONARY STATEMENTS

None.

2.2.1.5 ADDITIONAL LABELLING

None.

2.3 OTHER HAZARDS

None.
3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 CHEMICAL CHARACTERIZATION

Inorganic mixture

<table>
<thead>
<tr>
<th>Designation</th>
<th>Proportion (% weight)</th>
<th>CAS – No.</th>
<th>EC No.</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyethylenglykol</td>
<td>&lt;15 %</td>
<td>25322-68-3</td>
<td>203-473-3</td>
<td>No dangerous good</td>
</tr>
</tbody>
</table>

3.2 NOTE

None.

3.3 ADDITIONAL INFORMATION

None.

4. FIRST AID MEASURES

4.1 EYE CONTACT

Immediately flush with plenty of water for 10-15 minutes. Lift eyelid to ensure thorough flush. If irritation persists, consult physician.

4.2 SKIN CONTACT

Wash thoroughly with water and soap. If irritation persists, consult physician.

4.3 INGESTION

Do not induce vomiting under any circumstances. Rinse out mouth thoroughly with water if the person is conscious.

4.4 INHALATION

Remove affected person to fresh air. If irritation persists, consult a physician.

4.5 ADDITIONAL INFORMATION

None.

5. FIRE FIGHTING MEASURES

5.1 SUITABLE EXTINGUISHING DEVICES

No special fire fighting measures required. Non-combustible.

5.2 UNSUITABLE EXTINGUISHING DEVICES

Water with full jet.

5.3 ADDITIONAL INFORMATION

Toxic fumes may be released, due to heat during fire. Protective clothing and suitable respiratory protection are required.

6. ACCIDENTAL RELEASE MEASURES

6.1 INDIVIDUAL PROTECTION

Minimize direct contact with skin and eyes and inhalation of fumes through suitable protective measures. Ventilate room sufficiently.

6.2 MEASURES FOR ENVIRONMENTAL PROTECTION

Avoid spilling into drains and waterways. Collect spilled material in the best possible way and store in acid-proof container (Polyethylene…). Dispose of at toxic waste collection point. Do not mix with residual waste.

6.3 MEASURES FOR CLEANING

Use inorganic fluid-absorbing material (diatomaceous earth or universal binder) to pick up. Ventilate room sufficiently.

6.4 ADDITIONAL INFORMATION

None.
7. HANDLING AND STORAGE

7.1 HANDLING
Handling of this product only by trained personnel. Keep out of reach of children.

7.2 INDUSTRIAL HYGIENE
Obey customary hygiene measures. Do not eat, drink or smoke during work.

7.3 STORAGE
Store in a cool place and out of the reach of flammable materials and fireplaces.

7.4 INFORMATION ABOUT STORAGE IN ONE COMMON FACILITY
Do not store together with food.

7.5 FIRE AND EXPLOSION PROTECTION
None

7.6 INDICATION FOR SAFE HANDLING
Protect from heat sources.

7.7 STORAGE CLASS
Storage class 12: Non-combustible substances, which cannot be allocated to any other storage class.

7.8 ADDITIONAL INFORMATION
None.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

8.1.1 OCCUPATIONAL EXPOSURE LIMITS
The indicated limits are conform with the TRGS900.

<table>
<thead>
<tr>
<th>Polyethylene glycol (middle molar mass 200 - 400)</th>
<th>TLV value</th>
<th>1g/m³ E</th>
<th>Source:TRGS900</th>
</tr>
</thead>
</table>

8.1.2 BIOLOGICAL LIMIT VALUES
Not specified.

8.2 EXPOSURE CONTROLS
No limit established.

8.3 PERSONAL PROTECTIVE EQUIPMENT
Yes.

8.3.1 RESPIRATORY PROTECTION
Do not inhale fumes. Not required if safety regulations are observed.

8.3.2 HAND PROTECTION
Acid resistant gloves.

8.3.3 EYE PROTECTION
Use protective goggles (eventually with side protection).

8.3.4 OTHER
None.

8.4 FURTHER INFORMATION
None.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

9.1.1 FORM
Liquid.

9.1.2 COLOUR
Not defined.

9.1.3 ODOUR
Odourless.
9.1.4 CHANGES IN PHYSICAL STATE
9.1.4.1 FREEZING POINT Not defined.
9.1.4.2 MELTING POINT 4 – 8 °C
9.1.4.3 BOILING POINT Approx. 100 °C
9.1.5 DENSITY 1 g/cm³ (20 °C).
9.1.6 SOLUBILITY Water-soluble.
9.1.7 PH-VALUE Not defined.
9.1.8 FLASH POINT Not applicable.
9.1.9 IGNITION POINT Not applicable.
9.1.10 EXPLOSION LIMITS Lower: Vol. %
Upper: Vol. %
Not applicable.
9.1.11 SOLIDS CONTENT/VISCOSITY Not available.

9.2 PROPERTIES RELEVANT TO THE ELEMENT GROUP No indications.
9.3 ADDITIONAL INFORMATION No indications.

10. STABILITY AND REACTIVITY

10.1 REACTIVITY No indications.
10.2 CHEMICAL STABILITY No indications.
10.3 POSSIBILITY OF HAZARDOUS REACTIONS Keep away from heat sources, otherwise containers can burst.
Avoid contact with chemical products. Corrosive action on metals.
10.4 CONDITIONS TO AVOID Keep away from heat sources.
10.5 INCOMPATIBLE MATERIALS No indications.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS No indications.

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS
11.1.1 SKIN Irritant.
11.1.2 EYES Irritant.
11.1.3 SENSIBILIZATION No sensitizing effect known.
11.2 ADDITIONAL TOXICOLOGICAL INFORMATION For further information on toxicity of the product and the components please contact address.

12. ECOLOGICAL INFORMATION

12.1 TOXICITY No adverse ecological effects if handled and used according to the relevant regulations.
12.2 PERSISTENCE AND DEGRADABILITY  
No indications.

12.3 BIOACCUMULATIVE POTENTIAL  
No indications.

12.4 MOBILITY IN SOIL  
No indications.

12.5 RESULTS OF PBT AND VPVB ASSESSMENT  
No indications.

12.6 OTHER ADVERSE EFFECTS  
No indications.

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS  
Transfer to a special incinerator centre in conformity with local and governmental regulations.

13.1.1 EG-WASTE KEY  
Not known.

13.2 CONTAINER  
Enterially emptied container can be disposed of at collection stations.

13.3 ADDITIONAL INFORMATION  
None.

14. TRANSPORT INFORMATION

14.1 TRANSPORT AT LAND (ADR/RIG/GGVSE)

14.1.1 CLASSIFICATION  
-

14.1.2 HAZARD LABEL  
-

14.1.3 UN-NO.  
-

14.1.4 KEMLER NUMBER  
-

14.1.5 PACKING GROUP  
-

14.1.6 CLASSIFICATION CODE  
-

14.1.7 WARNING SIGN  
-

14.1.8 PACKING CODE  
-

14.1.9 VOLUME OR MASS  
-

14.1.10 CORRECT TECHNICAL TERM  
-

14.1.11 LIMITED QUANTITY  
-

14.2 TRANSPORT AT SEA (IMDG-CODE/GGVSEE)

14.2.1 CLASSIFICATION  
-

14.2.2 UN-NO  
-

14.2.3 PACKING GROUP  
-

14.2.4 EMS  
-

14.2.5 MARINE POLLUANT  
-

14.2.6 ADDITIONAL DANGER  
-
### 14.3 AIR TRANSPORT (ICAO-CODE/GGVSEE)
- 
### 14.3.1 CLASSIFICATION
- 
### 14.3.2 UN-NO:
- 
### 14.3.3 PACKING GROUP
- 
### 14.3.4 SUBSIDIARY RISK
- 
### 14.4 ADDITIONAL INFORMATION
None.

### 15. REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>Section</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION</td>
<td>No indications.</td>
</tr>
<tr>
<td>SPECIFIC FOR THE SUBSTANCE OR MIXTURE</td>
<td></td>
</tr>
<tr>
<td>15.2 NATIONAL REGULATIONS</td>
<td>Non combustible.</td>
</tr>
<tr>
<td>15.2.1 CLASSIFICATION IN ACCORDANCE WITH THE INDUSTRIAL SAFETY</td>
<td>No indications.</td>
</tr>
<tr>
<td>REGULATIONS (BETRSICHV)</td>
<td></td>
</tr>
<tr>
<td>15.3 TECHNICAL GUIDELINES AIR</td>
<td>No indications.</td>
</tr>
<tr>
<td>15.4 WATER POLLUTION CLASS</td>
<td>Water pollution class 1 (Self assessment): slightly hazardous for water.</td>
</tr>
<tr>
<td>15.5 CHEMICAL SAFETY ASSESSMENT</td>
<td>A chemicals safety assessment has not been carried out.</td>
</tr>
</tbody>
</table>

### 16. OTHER INFORMATION

The above mentioned date correspond to our present state of knowledge and experience. The material safety data sheet serves as description of the products with regards to necessary safety measures. The indications do not have the meaning of guarantees on properties.

**ABBREVIATIONS AND ACRONYMS**
- ICAO: International Civil Aviation Organization
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- BETRSICHV: Betriebssicherheitsverordnung (industrial safety regulations)