

VITA YZ HT SHADE LIQUID

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

1.1.2 ITEM NUMBER EZ0CY03XXX-EZ0CY80XXX

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE

1.2.1 IDENTIFIED USES Liquid for the colouring of zirconium oxide for dental technical application

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)761-19240

2. POSSIBLE DANGERS

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

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



H314 – Causes severe skin burns and eye damage.
H318 – Causes serious eye damage.



H335 May cause respiratory irritation.

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



GHS05



GHS07

2.2.1.2 SIGNALWORD

Danger.

2.2.1.3 HAZARD-DETERMINING COMPONENTS OF LABELLING

Erbium nitrate hydrate.

2.2.1.4 HAZARD STATEMENT

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

2.2.1.5 PRECAUTIONARY STATEMENTS

P261 Avoid breathing mist/vapours/spray.

P264 Wash face, hands and all exposed areas of the skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face 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.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations or disposal.

2.2.1.6 ADDITIONAL LABELLING

None.

2.3 OTHER HAZARDS

None.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 CHEMICAL CHARACTERIZATION

Mixture.

3.2 HAZARDOUS INGREDIENTS

Designation	Proportion (% weight)	CAS-No.	EC-No.	Classification
Chrome (III) – nitrate Nonahydrate (Purity 99 %)	0,03 – 1,6 %	7789-02-8	236-921-1	Skin Irrit. 2 H315; Eye Irrit. 2 H319; Ox.Sol. 3 H272
Iron (III) – nitrate Nonahydrate (Purity > 98 %)	0,1 – 6,9 %	7782-61-8	233-899-5	Skin Irrit. 1B H314
Erbium nitrate – hydrate (Purity > 98 %)	0 – 47 %	100641-14-3	233-436-7	Skin Irrit. 2 H315; Eye Irrit. 2 H319; STOT SE 3 H335 Ox.Sol. 2 H272
Manganese (II) – nitratexahydrat (Purity 98 %)	0 – 0,06 %	15710-66-4	236-196-1	Skin Irrit. 2 H315; Eye Irrit. 2 H319; STOT SE 3 H335 Ox.Sol. 3 H272

3.3 NOTE

None.

3.4 ADDITIONAL INFORMATION

The exact wording of the listed hazard statements is given in point 16.

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

Cover wound with a sterile dressing. Seek medical treatment. Immediate transport to a hospital.

4.3 INGESTION

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

4.4 INHALATION

Fresh air supply. Consult physician if problem persists. If unconscious, place and transport the patient in a stable side position.

4.5 ADDITIONAL INFORMATION

Remove any clothing that has been contaminated with the product immediately. In case of doubt or if symptoms should persist consult physician.

5. FIRE FIGHTING MEASURES

5.1 SUITABLE EXTINGUISHING DEVICES

Use fire fighting measures that suit the environment.

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. Ensure good ventilation/exhaustion at the workplace. Consider TRGS 401 - "Hazard through skin contact - Determination, evaluation, measures".
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. Consider regulations of the TRGS 510.
7.4 INFORMATION ABOUT STORAGE IN ONE COMMON FACILITY	Do not store together with food.
7.5 FIRE AND EXPLOSION PROTECTION	None.
7.6 INDICATIONS FOR SAFE HANDLING	Keep away from heat sources. Keep container tightly closed.
7.7 STORAGE CLASS	8A: Combustible, corrosive hazardous substances.
7.8 ADDITIONAL INFORMATION	None.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS	
8.1.1 OCCUPATIONAL EXPOSURE LIMITS	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
8.1.2 BIOLOGICAL LIMIT VALUES	No indications.
8.2 EXPOSURE CONTROLS	No limit established.
8.3 PERSONAL PROTECTIVE	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	Wear protective glasses (possibly 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	Variable.
9.1.3 ODOUR	Odourless.
9.1.4 CHANGES IN PHYSICAL STATE	
9.1.4.1 FREEZING POINT	Approx. 0 °C
9.1.4.2 MELTING POINT	Not defined.
9.1.4.3 BOILING POINT	Approx. 100 °C
9.1.5 DENSITY	1 g/cm ³ (20 °C)
9.1.6 SOLUBILITY	Water-soluble.
9.1.7 PH-VALUE	> 1,4
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. Formation of corrosive gases/vapours.
10.4 CONDITIONS TO AVOID	Keep away from heat sources. No decomposition if used and stored according to specifications.
10.5 INCOMPATIBLE MATERIALS	No indications.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	No hazardous decomposition products if stored and handled as prescribed/indicated.

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

11.1.1 SKIN	Caustic effect on skin and mucous membranes.
11.1.2 EYES	Strongly irritant with the danger of severe eye injury.
11.1.3 SENSIBILIZATION	No sensitizing effect known.
11.2 ADDITIONAL TOXICOLOGICAL INFORMATION	None.

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 CONSIDERATION

13.1 WASTE TREATMENT METHOD	Must not be disposed together with household garbage. Do not empty into drains. Disposal according to instructions of local authorities. Product must be disposed of in an appropriate manner in accordance with the regulations concerning the recycling/disposal of waste. The classification of the waste has to be carried out according to the European Waste Catalogue.
13.1.1 EG-WASTE KEY	06 00 00 WASTES FROM INORGANIC CHEMICAL PROCESSES 06 01 Wastes from manufacture, preparation, distribution and use (HZVA) 06 01 99 Wastes not specified elsewhere.
13.2 CONTAINER	Entirely emptied container can be disposed of at collection station.
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 POLLUTANT	-
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

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE	No indications.
15.2 NATIONAL REGULATIONS	
15.2.1 CLASSIFICATION IN ACCORDANCE WITH THE INDUSTRIAL SAFETY REGULATIONS (BETRSTICHV)	No indications. No indications.
15.3 TECHNICAL GUIDELINES AIR	
15.4 WATER POLLUTION CLASS	Water pollution class 2 (Self assessment): hazardous for water.
15.5 CHEMICAL SAFETY ASSESSMENT	A chemical safety assessment has not been carried out.

16. OTHER INFORMATION

The above mentioned data 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.

RELEVANT PHRASES

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Continue rinsing.

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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

BETRISCHV: Betriebssicherheitsverordnung (Industrial safety ordinance)

Department issuing data specification sheet:

Zirkonzahn GmbH,

An der Ahr 7,

IT 39030 Gais