

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### VITA SPRAY-ON INDICATOR LIQUID

Revision date: 27.01.2017

Product code: 042-US

Page 1 of 7

#### 1. Identification

##### Product identifier

VITA SPRAY-ON INDICATOR LIQUID

##### Recommended use of the chemical and restrictions on use

###### Use of the substance/mixture

Use as laboratory reagent

##### Details of the supplier of the safety data sheet

Company name: VITA Zahnfabrik H. Rauter GmbH &amp; Co. KG

Post-office box: 1338

79704 Bad Säckingen

Telephone: +49(0)7761-562-0

Telefax: +49(0)7761-562-299

e-mail: info@vita-zahnfabrik.com

Internet: www.vita-zahnfabrik.com

**Emergency phone number:** +49-(0)761-19240

#### 2. Hazard(s) identification

##### Classification of the chemical

###### 29 CFR Part 1910.1200

Hazard categories:

Flammable liquids: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2A

Hazard Statements:

Highly flammable liquid and vapor

Causes serious eye irritation

##### Label elements

###### 29 CFR Part 1910.1200

**Signal word:** Danger**Pictograms:**

##### **Hazard statements**

Highly flammable liquid and vapor

Causes serious eye irritation

##### **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

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

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Store in a well-ventilated place. Keep cool.

##### Hazards not otherwise classified

No information available.

#### 3. Composition/information on ingredients

##### Mixtures

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### VITA SPRAY-ON INDICATOR LIQUID

Revision date: 27.01.2017

Product code: 042-US

Page 2 of 7

#### Hazardous components

CAS No	Components	Quantity
64-17-5	ethyl alcohol	86.8 %
	Spray opaque liquid (USA) Alcohol <2 % Proprietary (not hazardous)geschützte Lösemittelmischung (kein Gefahrstoff) > 98%	13.2 %

#### 4. First-aid measures

##### Description of first aid measures

###### **After inhalation**

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.

###### **After contact with skin**

After contact with skin, wash immediately with plenty of water and soap.

###### **After contact with eyes**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

###### **After ingestion**

Rinse mouth immediately and drink plenty of water.

##### Most important symptoms and effects, both acute and delayed

No information available.

##### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### 5. Fire-fighting measures

##### Extinguishing media

###### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder.

###### **Unsuitable extinguishing media**

Water.

##### Specific hazards arising from the chemical

Highly flammable. Vapours can form explosive mixtures with air.

##### Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

##### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### 6. Accidental release measures

##### Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

##### Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

##### Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### VITA SPRAY-ON INDICATOR LIQUID

Revision date: 27.01.2017

Product code: 042-US

Page 3 of 7

#### Reference to other sections

Safe handling: see section 7  
 Personal protection equipment: see section 8  
 Disposal: see section 13

## 7. Handling and storage

### Precautions for safe handling

#### Advice on safe handling

No special measures are necessary.

#### Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.  
 Vapours can form explosive mixtures with air.

### Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Advice on storage compatibility

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

## 8. Exposure controls/personal protection

### Control parameters

#### Exposure limits

CAS No.	Substance	ppm	mg/m <sup>3</sup>	f/cc	Category	Origin
64-17-5	Ethanol	-	-		TWA (8 h)	ACGIH-2016
		1000			STEL (15 min)	ACGIH-2016
64-17-5	Ethyl alcohol (Ethanol)	1000	1900		TWA (8 h)	REL
64-17-5	Ethyl alcohol	1000	1900		TWA (8 h)	REL

### Exposure controls



#### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.  
 Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

#### Eye/face protection

Suitable eye protection: goggles.

#### Hand protection

Recommended glove articles KCL Dermatril P NBR (Nitrile rubber) Breakthrough time (maximum wearing time) 30 min When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### VITA SPRAY-ON INDICATOR LIQUID

Revision date: 27.01.2017

Product code: 042-US

Page 4 of 7

#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

Provide adequate ventilation as well as local exhaust at critical locations. Technical ventilation of workplace

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state:	liquid
Color:	pink
Odor:	characteristic

#### Test method

pH-Value:	not determined
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#### Changes in the physical state

Melting point/freezing point:	not determined
Initial boiling point and boiling range:	78 °C
Flash point:	15 °C

#### Flammability

Solid:	not applicable
Gas:	not applicable

Lower explosion limits:	3,5 vol. %
Upper explosion limits:	15 vol. %
Ignition temperature:	425 °C

#### Auto-ignition temperature

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	not determined
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#### Oxidizing properties

Not oxidizing.

Vapor pressure: (at 50 °C)	<=1100 hPa
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Density:	not determined
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#### Solubility in other solvents

not determined

Partition coefficient:	not determined
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Vapor density:	not determined
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Evaporation rate:	not determined
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### Other information

Solid content:	0 %
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## 10. Stability and reactivity

### Reactivity

Highly flammable.

### Chemical stability

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### VITA SPRAY-ON INDICATOR LIQUID

Revision date: 27.01.2017

Product code: 042-US

Page 5 of 7

The product is stable under storage at normal ambient temperatures.

#### Possibility of hazardous reactions

No known hazardous reactions.

#### Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

#### Incompatible materials

No information available.

#### Hazardous decomposition products

No known hazardous decomposition products.

## 11. Toxicological information

### Information on toxicological effects

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
64-17-5	ethyl alcohol				
	dermal	LD50 7060 mg/kg			
	Spray opaque liquid (USA) Alcohol <2 % Proprietary (not hazardous)geschützte Lösemittelmischung (kein Gefahrstoff) > 98%				
	oral	LD50 20 mg/kg	Ratte		
	dermal	LD50 20,8 mg/kg	Kaninchen		
	inhalative	Data lacking			

#### **Irritation and corrosivity**

Causes serious eye irritation

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### **Sensitizing effects**

Based on available data, the classification criteria are not met.

#### **Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

#### **Specific target organ toxicity (STOT) - single exposure**

Based on available data, the classification criteria are not met.

#### **Specific target organ toxicity (STOT) - repeated exposure**

Based on available data, the classification criteria are not met.

Carcinogenicity (IARC): Ethanol in alcoholic beverages (CAS 64-17-5) is listed in group 1.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### **Additional information on tests**

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

## 12. Ecological information

### Ecotoxicity

The product is not: Ecotoxic.

### Persistence and degradability

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### VITA SPRAY-ON INDICATOR LIQUID

Revision date: 27.01.2017

Product code: 042-US

Page 6 of 7

The product has not been tested.

#### Bioaccumulative potential

The product has not been tested.

#### Mobility in soil

The product has not been tested.

#### Other adverse effects

No information available.

#### Further information

Avoid release to the environment.

### 13. Disposal considerations

#### Waste treatment methods

##### Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

##### Contaminated packaging

Wash with plenty of water. Handle contaminated packages in the same way as the substance itself.

### 14. Transport information

#### Marine transport (IMDG)

<u>UN number:</u>	UN 1993
<u>UN proper shipping name:</u>	FLAMMABLE LIQUID, N.O.S. (ethyl alcohol)
<u>Transport hazard class(es):</u>	3
<u>Packing group:</u>	II
Hazard label:	3



Limited quantity:	1 L
Excepted quantity:	E2
EmS:	F-E, S-E

#### Air transport (ICAO-TI/IATA-DGR)

<u>UN number:</u>	UN 1993
<u>UN proper shipping name:</u>	FLAMMABLE LIQUID, N.O.S. (ethyl alcohol)
<u>Transport hazard class(es):</u>	3
<u>Packing group:</u>	II
Hazard label:	3



Limited quantity Passenger:	1 L	
Passenger LQ:	Y341	
Excepted quantity:	E2	
IATA-packing instructions - Passenger:		353
IATA-max. quantity - Passenger:		5 L
IATA-packing instructions - Cargo:		364
IATA-max. quantity - Cargo:		60 L

#### Environmental hazards

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### VITA SPRAY-ON INDICATOR LIQUID

Revision date: 27.01.2017

Product code: 042-US

Page 7 of 7

ENVIRONMENTALLY HAZARDOUS: no

#### Special precautions for user

Warning: Combustible liquid.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

## 15. Regulatory information

### U.S. Regulations

#### National regulatory information

SARA Section 311/312 Hazards:

ethyl alcohol (64-17-5): Fire hazard, Immediate (acute) health hazard

Spray opaque liquid (USA) Alcohol &lt;2 % Proprietary (not hazardous)geschützte Lösemittelmischung (kein Gefahrstoff) &gt; 98% (-): Immediate (acute) health hazard

### State Regulations

#### Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

## 16. Other information

Revision date: 27.01.2017

Revision No: 1

### Abbreviations and acronyms

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

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

### Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*