

Safety Data Sheet

according to WHMIS

VITAVM LC SEPARATOR

Revision date: 20.02.2017

Product code: 152-CA

Page 1 of 7

1. Identification

Product identifier

VITAVM LC SEPARATOR

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

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 & 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 telephone number: +49-(0)761-19240

2. Hazard identification

Classification of the substance or mixture

WHMIS 2015

Hazard categories:

Flammable liquid: Flam. Liq. 2

Aspiration hazard: Asp. Tox. 1

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Dam. 1

Specific target organ toxicity - single exposure: STOT SE 3

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazard Statements:

Highly flammable liquid and vapour.

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye damage.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

Label elements

WHMIS 2015

Signal word: Danger**Pictograms:**

Hazard statements

Highly flammable liquid and vapour.

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye damage.

May cause drowsiness or dizziness.

Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

Safety Data Sheet

according to WHMIS

VITAVM LC SEPARATOR

Revision date: 20.02.2017

Product code: 152-CA

Page 2 of 7

Precautionary statements

Avoid release to the environment.
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Do not breathe dust/fume/gas/mist/vapours/spray.
 Wear protective gloves/protective clothing/eye protection/face protection.
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 Call a POISON CENTER/doctor if you feel unwell.

Other hazards

No information available.

3. Composition/information on ingredients

Mixtures

Hazardous components

| CAS No | Chemical name | Quantity |
|-----------|-----------------------------|-------------|
| 110-82-7 | cyclohexane | 50 - < 55 % |
| 108-88-3 | toluene | 10 - < 15 % |
| 4253-34-3 | methylsilanetriyl triacetat | 1 - < 5 % |

4. First-aid measures

Description of first aid measures

After inhalation

Provide fresh air. Medical treatment necessary.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂), Foam, Extinguishing powder.

Unsuitable extinguishing media

Water.

Specific hazards arising from the hazardous product

Highly flammable. Vapours can form explosive mixtures with air.

Special protective equipment and precautions for fire-fighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

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

Safety Data Sheet

according to WHMIS

VITAVM LC SEPARATOR

Revision date: 20.02.2017

Product code: 152-CA

Page 3 of 7

Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. 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.

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

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

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 locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. 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 (ACGIH)

| CAS No | Chemical name | ppm | mg/m ³ | F/ml | Category | Origin |
|----------|---------------|-----|-------------------|------|-----------|------------|
| 110-82-7 | Cyclohexane | 100 | | | TWA (8 h) | ACGIH-2016 |
| 108-88-3 | Toluene | 20 | | | TWA (8 h) | ACGIH-2016 |

Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

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

Safety Data Sheet

according to WHMIS

VITAVM LC SEPARATOR

Revision date: 20.02.2017

Product code: 152-CA

Page 4 of 7

drink.

Eye/face protection

Suitable eye protection: goggles.

Hand protection

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. Recommended glove articles KCL Dermatril P Breakthrough time (maximum wearing time) 60 min NBR (Nitrile rubber)

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Technical ventilation of workplace Provide adequate ventilation as well as local exhaust at critical locations.

9. Physical and chemical properties

Information on basic physical and chemical properties

| | |
|-----------------|----------------|
| Physical state: | liquid |
| Colour: | translucent |
| Odour: | characteristic |

| | | |
|-----------|----------------|--------------------|
| pH-Value: | not determined | Test method |
|-----------|----------------|--------------------|

Changes in the physical state

| | |
|--|----------------|
| Melting point: | not determined |
| Initial boiling point and boiling range: | 77 °C |
| Flash point: | < 5 °C |

Flammability

| | |
|--------|----------------|
| Solid: | not applicable |
| Gas: | not applicable |

| | |
|-------------------------|------------|
| Lower explosive limits: | 1,2 vol. % |
| Upper explosive limits: | 8,3 vol. % |

| | | |
|-----------------------|--------|-----------|
| Ignition temperature: | 260 °C | DIN 51794 |
|-----------------------|--------|-----------|

Auto-ignition temperature

| | |
|--------|----------------|
| Solid: | not applicable |
| Gas: | not applicable |

| | |
|----------------------------|----------------|
| Decomposition temperature: | not determined |
|----------------------------|----------------|

Oxidizing properties

Not oxidizing.

| | |
|--------------------------------|------------|
| Vapour pressure: (at 50 °C) | <=1100 hPa |
|--------------------------------|------------|

| | |
|----------|---------------------------|
| Density: | 0,86700 g/cm ³ |
|----------|---------------------------|

| | |
|-------------------|----|
| Water solubility: | No |
|-------------------|----|

Solubility in other solvents

not determined

| | |
|------------------------|----------------|
| Partition coefficient: | not determined |
|------------------------|----------------|

Safety Data Sheet

according to WHMIS

VITAVM LC SEPARATOR

Revision date: 20.02.2017

Product code: 152-CA

Page 5 of 7

Vapour density: not determined

Evaporation rate: not determined

Other information

Solid content: 0,0 %

10. Stability and reactivity

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 | Chemical name | | | | |
|-----------|-----------------------------|---------------|---------|--------|--------|
| | Route of exposure | Dose | Species | Source | Method |
| 110-82-7 | cyclohexane | | | | |
| | dermal | LD50 mg/kg | 12705 | | |
| 108-88-3 | toluene | | | | |
| | dermal | LD50 mg/kg | 12124 | | |
| 4253-34-3 | methylsilanetriyl triacetat | | | | |
| | oral | ATE mg/kg | 500 | | |

Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

Sensitizing effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging fertility or the unborn child. (toluene)

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

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

STOT-single exposure

May cause drowsiness or dizziness. (cyclohexane)

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (toluene)

Aspiration hazard

May be fatal if swallowed and enters airways. (cyclohexane; toluene)

Additional information on tests

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

Safety Data Sheet

according to WHMIS

VITAVM LC SEPARATOR

Revision date: 20.02.2017

Product code: 152-CA

Page 6 of 7

arising from the substance or mixture!

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence and degradability

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

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

13. Disposal considerations

Waste treatment methods

Advice on disposal

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

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

14. Transport information

Marine transport (IMDG)

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

Safety Data Sheet

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VITAVM LC SEPARATOR

Revision date: 20.02.2017

Product code: 152-CA

Page 7 of 7



| | | |
|--|------|------|
| 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

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: cyclohexane

15. Regulatory information

Canadian regulations

16. Other information

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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