

# UNIVERSALVERDUENNER

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Issue date: 16/03/2020

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Supersedes: 02/02/2017

Version: 1.1

SDS No: 12236-0017

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name : UNIVERSALVERDUENNER

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Solvent mixture

##### 1.2.2. Uses advised against

No additional information available

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

Imbach Chemie AG  
Pilatusstrasse 31  
5630 Muri  
T +41 56 664 06 16 - F +41 56 664 06 17  
[info@imbachchemie.ch](mailto:info@imbachchemie.ch) - [www.imbachchemie.ch](http://www.imbachchemie.ch)

#### 1.4. Emergency telephone number

Emergency number : England & Wales: 111, Scotland: 111

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

|   |       |
|---|-------|
| Flammable liquids, Category 2   | H225  |
| Skin corrosion/irritation, Category 2   | H315  |
| Serious eye damage/eye irritation, Category 2   | H319  |
| Reproductive toxicity, Category 2   | H361d |
| Specific target organ toxicity — Single exposure, Category 3,<br>Respiratory tract irritation | H335  |
| Specific target organ toxicity — Single exposure, Category 3, Narcosis                        | H336  |
| Specific target organ toxicity — Repeated exposure, Category 2                                | H373  |
| Aspiration hazard, Category 1   | H304  |

Full text of H statements : see section 16

##### Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. May cause drowsiness or dizziness. Causes skin irritation. May be fatal if swallowed and enters airways. Causes serious eye irritation. May cause respiratory irritation. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02

GHS07

GHS08

Signal word (CLP) :

Danger

Hazardous ingredients :

Toluene; xylene; Butanone; propan-2-ol; isopropyl alcohol; isopropanol; 4-methylpentan-2-one

# UNIVERSALVERDUENNER

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
SDS No: 12236-0017

|                                |  |
|--------------------------------|--|
| Hazard statements (CLP)        | : H225 - Highly flammable liquid and vapour.<br>H304 - May be fatal if swallowed and enters airways.<br>H315 - Causes skin irritation.<br>H319 - Causes serious eye irritation.<br>H335 - May cause respiratory irritation.<br>H336 - May cause drowsiness or dizziness.<br>H361d - Suspected of damaging the unborn child.<br>H373 - May cause damage to organs through prolonged or repeated exposure. |
| Precautionary statements (CLP) | : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.<br>No smoking.<br>P243 - Take action to prevent static discharges.<br>P314 - Get medical advice/attention if you feel unwell.<br>P331 - Do NOT induce vomiting.<br>P405 - Store locked up.   |

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name  | Product identifier   | %        | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|---|--|----------|---|
| Toluene                                     | (CAS-No.) 108-88-3<br>(EC-No.) 203-625-9<br>(EC Index-No.) 601-021-00-3<br>(REACH-no) 01-2119471310-51 | 50 - 100 | Flam. Liq. 2, H225<br>Repr. 2, H361d<br>Asp. Tox. 1, H304<br>STOT RE 2, H373<br>Skin Irrit. 2, H315<br>STOT SE 3, H336  |
| xylene                                      | (CAS-No.) 1330-20-7<br>(EC-No.) 215-535-7<br>(REACH-no) 01-2119488216-32                               | 10 - 25  | Flam. Liq. 3, H226<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412 |
| Butanone                                    | (CAS-No.) 78-93-3<br>(EC-No.) 201-159-0<br>(EC Index-No.) 606-002-00-3<br>(REACH-no) 01-2119457290-43  | 10 - 15  | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336   |
| propan-2-ol; isopropyl alcohol; isopropanol | (CAS-No.) 67-63-0<br>(EC-No.) 200-661-7<br>(EC Index-No.) 603-117-00-0<br>(REACH-no) 01-2119457558-25  | 3 - 10   | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336   |
| 4-methylpentan-2-one                        | (CAS-No.) 108-10-1<br>(EC-No.) 203-550-1<br>(EC Index-No.) 606-004-00-4<br>(REACH-no) 01-2119473980-30 | 3- 10    | Flam. Liq. 2, H225<br>Acute Tox. 4 (Inhalation), H332<br>Eye Irrit. 2, H319<br>STOT SE 3, H335  |

Full text of H-statements: see section 16

# UNIVERSALVERDUENNER

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SDS No: 12236-0017

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : Take off immediately all contaminated clothing. In the event of persistent symptoms receive medical treatment. Take affected person away from danger area.                     |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician. In case of loss of conscience place the victim in the recovery position. |
| First-aid measures after skin contact | : Wash off immediately with soap and plenty of water. Treat subsequently with skin cream. Get medical advice if skin irritation persists.  |
| First-aid measures after eye contact  | : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a doctor.  |
| First-aid measures after ingestion    | : Do not induce vomiting. Attention. Beware, danger of aspiration. Call a physician immediately. Rinse mouth. Drink plenty of water.   |

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

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects after inhalation   | : High concentration of vapours may induce: headache, dizziness, drowsiness, nausea and vomiting.                                |
| Symptoms/effects after skin contact | : Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.          |
| Symptoms/effects after eye contact  | : May cause eye irritation.  |
| Symptoms/effects after ingestion    | : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May be fatal if swallowed and enters airways. |

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : high volume water jet.                         |

#### 5.2. Special hazards arising from the substance or mixture

|  |  |
|--|--|
| Explosion hazard                                 | : In use, may form flammable/explosive vapour-air mixture. |
| Hazardous decomposition products in case of fire | : Carbon oxides (CO, CO <sub>2</sub> ).                    |

#### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Use self-contained breathing apparatus and chemically protective clothing. |
| Other information              | : Cool containers at risk with water spray jet. Collect contaminated firefighting water separately, must not be discharged into the drains.       |

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

|                      |   |
|----------------------|---|
| Emergency procedures | : Ventilate spillage area. No flames, no sparks. Eliminate all sources of ignition. Evacuate unnecessary personnel. Wear personal protective equipment. |
|----------------------|---|

##### 6.1.2. For emergency responders

|                      |   |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

#### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

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

|                         |   |
|-------------------------|---|
| For containment         | : Collect spillage.   |
| Methods for cleaning up | : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. |
| Other information       | : Dispose of materials or solid residues at an authorized site.   |

# UNIVERSALVERDUENNER

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SDS No: 12236-0017

### 6.4. Reference to other sections

Refer to protective measures listed in sections 7 and 8. For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Handle and open container with care. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid formation of aerosols. Take precautionary measures against static discharge. Explosion free apparatus have to be used. Vapours are heavier than air and may spread along floors. Pregnant women may avoid to breathe or to have skin contact with product.
- Hygiene measures : Do not inhale vapour. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Treat subsequently with skin cream. Avoid contact with skin, eyes and clothing. Take off immediately all contaminated clothing and wash it before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep container tightly closed in a dry, cool and well-ventilated place. Pay attention to explosion protection guidelines.
- Incompatible products : Strong oxidizing agent. Strong acids. Strong bases.
- Heat and ignition sources : Keep away from heat and direct sunlight.
- Information on mixed storage : Keep away from food, drink and animal feeding stuffs.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Toluene (108-88-3)                                   |   |
|--|---|
| <b>EU - Occupational Exposure Limits</b>             |   |
| Local name   | Toluene   |
| IOELV TWA (mg/m <sup>3</sup> )                       | 192 mg/m <sup>3</sup>   |
| IOELV TWA (ppm)                                      | 50 ppm  |
| IOELV STEL (mg/m <sup>3</sup> )                      | 384 mg/m <sup>3</sup>   |
| IOELV STEL (ppm)                                     | 100 ppm   |
| Notes  | Skin  |
| Regulatory reference                                 | COMMISSION DIRECTIVE 2006/15/EC   |
| <b>United Kingdom - Occupational Exposure Limits</b> |   |
| Local name   | Toluene   |
| WEL TWA (mg/m <sup>3</sup> )                         | 191 mg/m <sup>3</sup>   |
| WEL TWA (ppm)  | 50 ppm  |
| WEL STEL (mg/m <sup>3</sup> )                        | 384 mg/m <sup>3</sup>   |
| WEL STEL (ppm)                                       | 100 ppm   |
| Remark (WEL)   | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| WEL chemical category                                | Potential for cutaneous absorption  |
| Regulatory reference                                 | EH40/2005 (Fourth edition, 2020). HSE   |

# UNIVERSALVERDUENNER

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SDS No: 12236-0017

### xylene (1330-20-7)

#### EU - Occupational Exposure Limits

|                                 |                                 |
|---------------------------------|---------------------------------|
| Local name                      | Xylene, mixed isomers, pure     |
| IOELV TWA (mg/m <sup>3</sup> )  | 221 mg/m <sup>3</sup>           |
| IOELV TWA (ppm)                 | 50 ppm                          |
| IOELV STEL (mg/m <sup>3</sup> ) | 442 mg/m <sup>3</sup>           |
| IOELV STEL (ppm)                | 100 ppm                         |
| Notes                           | Skin                            |
| Regulatory reference            | COMMISSION DIRECTIVE 2000/39/EC |

#### United Kingdom - Occupational Exposure Limits

|                               |   |
|-------------------------------|---|
| Local name                    | Xylene  |
| WEL TWA (mg/m <sup>3</sup> )  | 220 mg/m <sup>3</sup> o-,m-,p- or mixed isomers   |
| WEL TWA (ppm)                 | 50 ppm o-,m-,p- or mixed isomers  |
| WEL STEL (mg/m <sup>3</sup> ) | 441 mg/m <sup>3</sup> o-,m-,p- or mixed isomers   |
| WEL STEL (ppm)                | 100 ppm o-,m-,p- or mixed isomers   |
| Remark (WEL)                  | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| Regulatory reference          | EH40/2005 (Fourth edition, 2020). HSE   |

#### United Kingdom - Biological limit values

|                      |   |
|----------------------|---|
| Local name           | Xylene, o-, m-, p- or mixed isomers   |
| United Kingdom (BEI) | 650 mmol/mol Creatinine Parameter: methyl hippuric acid - Medium: urine - Sampling time: Post shift |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE   |

### Butanone (78-93-3)

#### EU - Occupational Exposure Limits

|                                 |                                 |
|---------------------------------|---------------------------------|
| Local name                      | Butanone                        |
| IOELV TWA (mg/m <sup>3</sup> )  | 600 mg/m <sup>3</sup>           |
| IOELV TWA (ppm)                 | 200 ppm                         |
| IOELV STEL (mg/m <sup>3</sup> ) | 900 mg/m <sup>3</sup>           |
| IOELV STEL (ppm)                | 300 ppm                         |
| Regulatory reference            | COMMISSION DIRECTIVE 2000/39/EC |

#### United Kingdom - Occupational Exposure Limits

|                               |   |
|-------------------------------|---|
| Local name                    | Butan-2-one (methyl ethyl ketone)   |
| WEL TWA (mg/m <sup>3</sup> )  | 600 mg/m <sup>3</sup>   |
| WEL TWA (ppm)                 | 200 ppm   |
| WEL STEL (mg/m <sup>3</sup> ) | 899 mg/m <sup>3</sup>   |
| WEL STEL (ppm)                | 300 ppm   |
| Remark (WEL)                  | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| Regulatory reference          | EH40/2005 (Fourth edition, 2020). HSE   |

# UNIVERSALVERDUENNER

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
SDS No: 12236-0017

### Butanone (78-93-3)

#### United Kingdom - Biological limit values

|                      |  |
|----------------------|--|
| Local name           | Butan-2-one (methyl ethyl ketone)  |
| United Kingdom (BEI) | 70 µmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE  |

### propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

#### United Kingdom - Occupational Exposure Limits

|                               |                                       |
|-------------------------------|---------------------------------------|
| Local name                    | Propan-2-ol                           |
| WEL TWA (mg/m <sup>3</sup> )  | 999 mg/m <sup>3</sup>                 |
| WEL TWA (ppm)                 | 400 ppm                               |
| WEL STEL (mg/m <sup>3</sup> ) | 1250 mg/m <sup>3</sup>                |
| WEL STEL (ppm)                | 500 ppm                               |
| Regulatory reference          | EH40/2005 (Fourth edition, 2020). HSE |

### 4-methylpentan-2-one (108-10-1)

#### EU - Occupational Exposure Limits

|                                 |                                 |
|---------------------------------|---------------------------------|
| Local name                      | 4-Methylpentan-2-one            |
| IOELV TWA (mg/m <sup>3</sup> )  | 83 mg/m <sup>3</sup>            |
| IOELV TWA (ppm)                 | 20 ppm                          |
| IOELV STEL (mg/m <sup>3</sup> ) | 208 mg/m <sup>3</sup>           |
| IOELV STEL (ppm)                | 50 ppm                          |
| Regulatory reference            | COMMISSION DIRECTIVE 2000/39/EC |

#### United Kingdom - Occupational Exposure Limits

|                               |   |
|-------------------------------|---|
| Local name                    | 4-Methylpentan-2-one  |
| WEL TWA (mg/m <sup>3</sup> )  | 208 mg/m <sup>3</sup>   |
| WEL TWA (ppm)                 | 50 ppm  |
| WEL STEL (mg/m <sup>3</sup> ) | 416 mg/m <sup>3</sup>   |
| WEL STEL (ppm)                | 100 ppm   |
| Remark (WEL)                  | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| WEL chemical category         | Potential for cutaneous absorption  |
| Regulatory reference          | EH40/2005 (Fourth edition, 2020). HSE   |

#### United Kingdom - Biological limit values

|                      |   |
|----------------------|---|
| Local name           | 4-methylpentan-2-one  |
| United Kingdom (BEI) | 20 µmol/l Parameter: 4-methylpentan-2-one - Medium: urine - Sampling time: Post shift |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE   |

## 8.2. Exposure controls

### Appropriate engineering controls:

Ensure good ventilation of the work station. Pay attention to explosion protection guidelines. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

# UNIVERSALVERDUENNER

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SDS No: 12236-0017

### Hand protection:

Protective gloves. This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions. Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves

| Type              | Material                | Permeation        | Thickness (mm) | Penetration | Standard |
|-------------------|-------------------------|-------------------|----------------|-------------|----------|
| protective gloves | Neoprene                | 6 (> 480 minutes) | 0,75           |             |          |
| protective gloves | Polyvinylchloride (PVC) | 6 (> 480 minutes) | 1,3            |             |          |

### Eye protection:

Protective goggles (EN 166)

### Skin and body protection:

Long sleeved protective clothing

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

| Device                             | Filter type | Condition           | Standard |
|------------------------------------|-------------|---------------------|----------|
| Breathing apparatus with filter    |             | Short term exposure |          |
| Self contained breathing apparatus |             | Long term exposure  |          |

### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |   |
|--|---|
| Physical state                             | : Liquid  |
| Colour                                     | : According to product specification.   |
| Odour                                      | : characteristic.   |
| Odour threshold                            | : No data available   |
| pH   | : No data available   |
| Relative evaporation rate (butylacetate=1) | : No data available   |
| Melting point                              | : No data available   |
| Freezing point                             | : No data available   |
| Boiling point                              | : 79 °C   |
| Flash point                                | : < 0 °C  |
| Auto-ignition temperature                  | : No data available   |
| Decomposition temperature                  | : No data available   |
| Flammability (solid, gas)                  | : Not applicable  |
| Vapour pressure                            | : 105 hPa (20°C)  |
| Relative vapour density at 20 °C           | : No data available   |
| Relative density                           | : No data available   |
| Density                                    | : 0.85 g/cm <sup>3</sup> (20°C)   |
| Solubility                                 | : Water: immiscible   |
| Log Pow                                    | : No data available   |
| Viscosity, kinematic                       | : No data available   |
| Viscosity, dynamic                         | : No data available   |
| Explosive properties                       | : Product is not explosive. Flammable or explosive vapour/air mixtures may be formed. |
| Oxidising properties                       | : Not self-igniting.  |
| Lower explosive limit (LEL)                | : 1 vol %   |
| Upper explosive limit (UEL)                | : 11.5 vol %  |

# UNIVERSALVERDUENNER

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SDS No: 12236-0017

### 9.2. Other information

Ignition temperature : 425 °C  
Solvent content : 100%

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

No decomposition if stored and applied as directed.

### 10.3. Possibility of hazardous reactions

In use, may form flammable/explosive vapour-air mixture.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

Oxidizing agent. Acids. Strong bases.

### 10.6. Hazardous decomposition products

Toxic gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging the unborn child.

STOT-single exposure : May cause respiratory irritation. May cause drowsiness or dizziness.

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

Aspiration hazard : May be fatal if swallowed and enters airways.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Not classified

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available



# UNIVERSALVERDUENNER

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
SDS No: 12236-0017

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Additional information : Do not flush into surface water or sewer system

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Sewage disposal recommendations : Do not discharge into drains.  
Product/Packaging disposal recommendations : Should not be disposed of with household waste. Empty containers should be taken for local recycling, recovery or waste disposal. Packaging that cannot be cleaned should be disposed of like the product.  
Additional information : The vapour/air mixture is explosive, even in empty, uncleaned receptacles.  
European List of Waste (LoW) code : 16 05 08\* - discarded organic chemicals consisting of or containing dangerous substances

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR   | IMDG   | IATA   | ADN  | RID  |
|---|--|--|--|--|
| <b>14.1. UN number</b>  |  |  |  |  |
| UN 1993   | UN 1993  | UN 1993  | UN 1993  | UN 1993  |
| <b>14.2. UN proper shipping name</b>                                      |  |  |  |  |
| FLAMMABLE LIQUID,<br>N.O.S. (Toluene ;<br>Butanone)                       | FLAMMABLE LIQUID,<br>N.O.S. (Toluene ;<br>Butanone)                | Flammable liquid, n.o.s.<br>(Toluene ; Butanone)                   | FLAMMABLE LIQUID,<br>N.O.S. (Toluene ;<br>Butanone)                | FLAMMABLE LIQUID,<br>N.O.S. (Toluene ;<br>Butanone)                |
| <b>Transport document description</b>                                     |  |  |  |  |
| UN 1993 FLAMMABLE<br>LIQUID, N.O.S. (Toluene ;<br>Butanone), 3, II, (D/E) | UN 1993 FLAMMABLE<br>LIQUID, N.O.S. (Toluene ;<br>Butanone), 3, II | UN 1993 Flammable liquid,<br>n.o.s. (Toluene ; Butanone),<br>3, II | UN 1993 FLAMMABLE<br>LIQUID, N.O.S. (Toluene ;<br>Butanone), 3, II | UN 1993 FLAMMABLE<br>LIQUID, N.O.S. (Toluene ;<br>Butanone), 3, II |
| <b>14.3. Transport hazard class(es)</b>                                   |  |  |  |  |
| 3   | 3  | 3  | 3  | 3  |
|   |  |  |  |  |
| <b>14.4. Packing group</b>  |  |  |  |  |
| II  | II   | II   | II   | II   |
| <b>14.5. Environmental hazards</b>  |  |  |  |  |
| Dangerous for the<br>environment : No                                     | Dangerous for the<br>environment : No<br>Marine pollutant : No     | Dangerous for the<br>environment : No                              | Dangerous for the<br>environment : No                              | Dangerous for the<br>environment : No                              |
| No supplementary information available                                    |  |  |  |  |

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : F1  
Special provisions (ADR) : 274, 601, 640D  
Limited quantities (ADR) : 1I  
Excepted quantities (ADR) : E2  
Packing instructions (ADR) : P001, IBC02, R001  
Mixed packing provisions (ADR) : MP19

# UNIVERSALVERDUENNER

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
SDS No: 12236-0017

Transport category (ADR) : 2  
Hazard identification number (Kemler No.) : 33  
Orange plates :



Tunnel restriction code (ADR) : D/E  
EAC code : •3YE

### Transport by sea

Special provisions (IMDG) : 274  
Limited quantities (IMDG) : 1 L  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P001  
EmS-No. (Fire) : F-E  
EmS-No. (Spillage) : S-E

### Air transport

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y341  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 353  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 364  
CAO max net quantity (IATA) : 60L  
Special provisions (IATA) : A3  
ERG code (IATA) : 3H

### Inland waterway transport

Classification code (ADN) : F1  
Special provisions (ADN) : 274, 601, 640C  
Limited quantities (ADN) : 1 L  
Excepted quantities (ADN) : E2  
Equipment required (ADN) : PP, EX, A  
Ventilation (ADN) : VE01  
Number of blue cones/lights (ADN) : 1

### Rail transport

Classification code (RID) : F1  
Special provisions (RID) : 274, 601, 640C  
Limited quantities (RID) : 1L  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P001  
Transport category (RID) : 2  
Hazard identification number (RID) : 33

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

| Reference code | Applicable on  | Entry title or description   |
|----------------|--|--|
| 40.            | UNIVERSALVERDUENNER ; Toluene ; xylene ; Butanone ; propan-2-ol; isopropyl alcohol; isopropanol ; 4-methylpentan-2-one | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. |
| 48.            | Toluene  | Toluene  |

Contains no substance on the REACH candidate list  
Contains no REACH Annex XIV substances

# UNIVERSALVERDUENNER

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SDS No: 12236-0017

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

### Directive 2012/18/EU (SEVESO III)

| Seveso III Part I (Categories of dangerous substances)                                   | Qualifying quantity (tonnes) |            |
|--|------------------------------|------------|
|  | Lower-tier                   | Upper-tier |
| P5c FLAMMABLE LIQUIDS<br>Flammable liquids, Categories 2 or 3 not covered by P5a and P5b | 5000                         | 50000      |

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

| Abbreviations and acronyms: |   |
|-----------------------------|---|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways   |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road               |
| ATE                         | Acute Toxicity Estimate   |
| BLV                         | Biological limit value  |
| CAS-No.                     | Chemical Abstract Service number  |
| CLP                         | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                       |
| DMEL                        | Derived Minimal Effect level  |
| DNEL                        | Derived-No Effect Level   |
| EC50                        | Median effective concentration  |
| EC-No.                      | European Community number   |
| EN                          | European Standard   |
| IATA                        | International Air Transport Association   |
| IMDG                        | International Maritime Dangerous Goods  |
| LC50                        | Median lethal concentration   |
| LD50                        | Median lethal dose  |
| LOAEL                       | Lowest Observed Adverse Effect Level  |
| NOAEC                       | No-Observed Adverse Effect Concentration  |
| NOAEL                       | No-Observed Adverse Effect Level  |
| NOEC                        | No-Observed Effect Concentration  |
| OEL                         | Occupational Exposure Limit   |
| PBT                         | Persistent Bioaccumulative Toxic  |
| PNEC                        | Predicted No-Effect Concentration   |
| REACH                       | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail                      |
| SDS                         | Safety Data Sheet   |
| vPvB                        | Very Persistent and Very Bioaccumulative  |

# UNIVERSALVERDUENNER

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SDS No: 12236-0017

|     |                    |
|-----|--------------------|
| WGK | Water Hazard Class |
|-----|--------------------|

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Acute Tox. 4 (Dermal)               | Acute toxicity (dermal), Category 4  |
| Acute Tox. 4 (Inhalation)           | Acute toxicity (inhal.), Category 4  |
| Aquatic Chronic 3                   | Hazardous to the aquatic environment — Chronic Hazard, Category 3                          |
| Asp. Tox. 1                         | Aspiration hazard, Category 1  |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2  |
| Flam. Liq. 2                        | Flammable liquids, Category 2  |
| Flam. Liq. 3                        | Flammable liquids, Category 3  |
| Repr. 2                             | Reproductive toxicity, Category 2  |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2  |
| STOT RE 2                           | Specific target organ toxicity — Repeated exposure, Category 2                             |
| STOT SE 3                           | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| STOT SE 3                           | Specific target organ toxicity — Single exposure, Category 3, Narcosis                     |
| H225                                | Highly flammable liquid and vapour.  |
| H226                                | Flammable liquid and vapour.   |
| H304                                | May be fatal if swallowed and enters airways.  |
| H312                                | Harmful in contact with skin.  |
| H315                                | Causes skin irritation.  |
| H319                                | Causes serious eye irritation.   |
| H332                                | Harmful if inhaled.  |
| H335                                | May cause respiratory irritation.  |
| H336                                | May cause drowsiness or dizziness.   |
| H361d                               | Suspected of damaging the unborn child.  |
| H373                                | May cause damage to organs through prolonged or repeated exposure.                         |
| H412                                | Harmful to aquatic life with long lasting effects.   |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: |       |                       |
|---|-------|-----------------------|
| Flam. Liq. 2  | H225  | On basis of test data |
| Skin Irrit. 2   | H315  | Calculation method    |
| Eye Irrit. 2  | H319  | Calculation method    |
| Repr. 2   | H361d | Calculation method    |
| STOT SE 3   | H335  | Calculation method    |
| STOT SE 3   | H336  | Calculation method    |
| STOT RE 2   | H373  | Calculation method    |
| Asp. Tox. 1   | H304  | Expert judgment       |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.