



## Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date: 12.10.2009

Revision: 12.10.2009

### 1 Identification of the substance/preparation and of the company/undertaking

Product name: **2-Tridecanone**  
Synonyms: Methyl undecyl ketone  
Application of the substance/the preparation: Chemical intermediate; chemical speciality  
Manufacturer/Supplier: VUP, a.s.  
Nábrežná 4  
971 04 Prievidza, Slovakia  
Tel: 00421-46-5430841  
Fax: 00421-46-5430261  
E-mail: kbu@vupas.sk

### 2 Hazards identification

**Hazard description:**

N Dangerous for the environment.

**Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 50 Very toxic to aquatic organisms.

**Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

### 3 Composition/information on ingredients

Name	CAS	%	EINECS
2-Tridecanone	593-08-8	> 98.5	209-784-0

### 4 First aid measures

**After inhalation:**

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

**After skin contact:**

Wash off with soap and plenty of water. Consult a physician.

**After eye contact:**

Flush eyes with water as a precaution.

**After swallowed:**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5 Fire-fighting measures

**Suitable extinguishing media:**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters:**

Wear self contained breathing apparatus for fire fighting if necessary.

(Contd. on page 2)

Printing date: 12.10.2009

Revision: 12.10.2009

Product name: **2-Tridecanone**

(Contd. of page 1)

### 6 Accidental release measures

**Personal precautions:**

Avoid dust formation. Ensure adequate ventilation.

**Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods for cleaning up:**

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

### 7 Handling and storage

**Handling:**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Storage:**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

### 8 Exposure controls/personal protection

**Personal protective equipment**

**Skin and body protection:**

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Respiratory protection:**

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Protection of hands:**

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

**Eye protection:**

Safety glasses.

**Hygiene measures:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 9 Physical and chemical properties

Physical State:	solid
Color:	light yellow
Freezing/Melting Point:	27 - 29 °C
Boiling Point:	95,3 °C/0,2 kPa; 127,9 °C/1,2 kPa
Flash Point:	128 °C; Method: closed cup
Specific Gravity/Density:	0,8134 g/cm <sup>3</sup>
Log P (octanol-water):	4,3
Vapor Pressure:	Not available
Surface tension:	23,79 mN/m at 40 °C
Solubility in water:	insoluble
in other solvents:	soluble in ethanol
Molecular Formula:	C <sub>13</sub> H <sub>26</sub> O
Molecular Weight:	198,35 g/mol

(Contd. on page 3)

Printing date: 12.10.2009

Revision: 12.10.2009

Product name: **2-Tridecanone**

(Contd. of page 2)

### 10 Stability and reactivity

**Storage stability:**

Stable under recommended storage conditions.

**Materials to avoid:**

Strong oxidizing agents.

**Hazardous decomposition products:**

Hazardous decomposition products formed under fire conditions. - Carbon oxides.

### 11 Toxicological information

**Acute toxicity:**

No data available.

**Irritation and corrosion:**

No data available.

**Sensitisation:**

No data available.

**Chronic exposure:**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Signs and Symptoms of Exposure:**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Potential Health Effects**

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

**Ski:** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes:** May cause eye irritation.

**Ingestion:** May be harmful if swallowed.

### 12 Ecological information

**Elimination information (persistence and degradability):**

No data available.

**Ecotoxicity effects:**

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 0,36 mg/l - 96 h

**Further information on ecology:**

Very toxic to aquatic organisms.

### 13 Disposal considerations

**Product**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging:**

Dispose of as unused product.

Contd. on page 4)

Printing date: 12.10.2009

Revision: 12.10.2009

Product name: **2-Tridecanone**

(Contd. of page 3)

#### **14 Transport information**

##### **RID/ADR**

UN Number: 3077  
Hazard class: 9  
Packaging group: III  
Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tridecan-2-one).

##### **IMDG**

UN number: 3077  
Hazard class: 9  
Packaging group: III  
EMS-No: FA, S-F  
Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tridecan-2-one).  
Marine pollutant: No  
Sever marine pollutant: No

##### **IATA**

UN number: 3077  
Hazard class: 9  
Packaging group: III  
Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tridecan-2-one).

#### **15 Regulatory information**

##### **Labelling according to EC Directives**

##### **Hazard symbols:**

N Dangerous for the environment.

##### **R-phrase(s):**

50 Very toxic to aquatic organisms.

##### **S-phrase(s):**

61 Avoid release to the environment. Refer to special instructions. Safety data sheets.

#### **16 Other information**

This Safety Data Sheet is not a Product Specification. It is based on our present knowledge and experience and it is intended to serve as a guide for safe handling of the product regarding to health and environmental aspects.