

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifiers**

Product name 1,1,2,4,4-Pentachlorobutadiene  
Product Number 10900-0639-100ME2  
REACH No. A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

Identified uses specific analytics

**1.3 Details of the supplier of the safety data sheet**

NEOCHEMA GmbH  
Company Am Kümmerling 37a  
55294 Bodenheim,  
Telephone +49 6135-8166  
Fax +49 6135-8168  
E-mail address [info@neochema.com](mailto:info@neochema.com)

**1.4 Emergency telephone number**

Emergency Phone # +49 6135-8166  
This number is only reachable during office hours (Mo - Fr, 08:00 AM - 4:00 PM CET).

**SECTION 2: Hazards identification****2.1 Classification according to Regulation (EC) No 1272/2008**

Flam. liq. (category 2), H225;  
Acute tox. (oral, category 3), H301;  
Acute tox. (dermal, category 3), H311;  
Acute tox. (inhalation, category 3), H331;  
STOT SE (category 1), H370;

For the full text of the H-Statements mentioned in this Section, see Section 2.2.

**2.2 Labelling according Regulation (EC) No 1272/2008****Pictogram**

Signal word

Danger

**Hazard statements**

H225 Highly flammable liquid and vapour.  
H370 Causes damage to organs.  
H301 + H311 + H331 Toxic if swallowed, in contact with skin or inhaled.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P262 Do not get in eyes, on skin, or on clothing.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + 310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P302 + P350 IF ON SKIN: Wash with plenty of water.  
P304 + 340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P307 + P311 If exposed or concerned: Call a POISON CENTER/ doctor.  
P370 + P378 In case of fire: Use carbondioxid, sand or extinguishing powder to extinguish.

**Supplemental Hazard Statements (EU)**

none

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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**SECTION 3: Composition/information on ingredients****3.1 Substances**

This product is a mixture.

**3.2 Mixtures**

Ingredient: Methanol; CAS-No.: 67-56-1; EG-No.: 200-659-6; REACH-No.: 01-2119433307-44-XXXX; Classification: H225, H301, H311, H331, H370; Flam. Liq 2; Acute Tox. 3; Acute Tox. 3; Acute Tox. 3; STOT SE 1; Concentration: >= 90 - <= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

Substances listed on the 'Candidate List of Substances of Very High Concern (SVHC) for authorisation' of the European Chemical Agency (ECHA), are not intentional ingredient of this product. It is not to be expected that those substances are in quantity of >= 0,1 % in this product.

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**SECTION 4: First aid measures****4.1 Description of first aid measures****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

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

**In case of skin contact**

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

**In case of eye contact**

Flush eyes with water as a precaution. Consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available

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**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

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

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

**6.2 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.

**6.3 Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing or collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local regulations (see section 13).

**6.4 Reference to other sections**

For disposal see section 13.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Avoid exposure. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Flammable liquids.

**7.3 Specific end uses**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

Ingredient: Methanol; CAS-No.: 67-56-1; TWA: 200 ppm, 260 mg/m<sup>3</sup>; AGW: 100 ppm, 130 mg/m<sup>3</sup>

**8.2 Exposure controls****Appropriate engineering controls**

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

**Personal protective equipment****Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection**

Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

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

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

These information refer to the main component and are literature values.

<b>a) Appearance</b>	liquid
<b>b) Odour</b>	alcoholic
<b>c) Odour Threshold</b>	No data available
<b>d) pH</b>	No data available
<b>e) Melting point</b>	-98 °C
<b>f) Initial boiling point</b>	64,7 °C
<b>g) Flash point</b>	9,7 °C - closed cup
<b>h) Evaporation rate</b>	No data available
<b>i) Flammability</b>	No data available
<b>j) Explosive limits</b>	Lower explosion limit: 6 %(V) Upper explosion limit: 36 %(V)
<b>k) Vapour pressure</b>	130,3 hPa at 20,0 °C
<b>l) Vapour density</b>	1,11
<b>m) Relative density</b>	0,79 g/cm <sup>3</sup>
<b>n) Water solubility</b>	completely miscible
<b>o) Partition coefficient</b>	log Pow: -0,77 (n-Octanol/Water)
<b>p) Auto-ignition temperature</b>	455,0 °C bei 1.013 hPa
<b>q) Decomposition temperature</b>	No data available

r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

## 9.2 Other safety information

No data available

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## SECTION 10: Stability and reactivity

Theses information refer to the main component.

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

Heat, flames and sparks.

### 10.5 Incompatible materials

Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids

### 10.6 Hazardous decomposition products

In the event of fire: see section 5

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

No data available for the product.

#### Acute toxicity

Ingredient: Methanol; CAS-No.: 67-56-1; LD(50) (oral, ATE): 100 mg/kg; (literature); LD(50) (dermal, ATE): 300 mg/kg; (literature); LD(50) (inhalation, ATE): 3 mg/L; (literature);

ATE-Mix (oral): 100mg/kg

ATE-Mix (dermal): 300mg/kg

ATE-Mix (inhalation): 3mg/l

#### Skin corrosion/irritation

The mixture is not classified.

#### Serious eye damage/eye irritation

The mixture is not classified.

#### Respiratory or skin sensitisation

The mixture is not classified.

#### Germ cell mutagenicity

The mixture is not classified.

#### Carcinogenicity

The mixture is not classified.

#### Reproductive toxicity

The mixture is not classified.

#### Specific target organ toxicity - single exposure

The mixture is not classified.

#### Specific target organ toxicity - repeated exposure

The mixture causes damage to organs. The classification results from specific concentration limits.

#### Aspiration hazard

The mixture is not classified.

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## SECTION 12: Ecological information

### 12.1 Toxicity

The mixture is not classified.

### 12.2 Persistence and degradability

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

No data available

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

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**SECTION 14: Transport information****14.1 UN number**

ADR/RID: 1230

IMDG: 1230

IATA: 1230

**14.2 UN proper shipping name**

ADR/RID: METHANOL

IMDG: METHANOL

IATA: Methanol

**14.3 Transport hazard classes**

ADR/RID: 3 (6.1)

IMDG: 3 (6.1)

IATA: 3 (6.1)

**14.4 Packaging group**

ADR/RID: II

IMDG: II

IATA: II

**14.5 Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no IATA: no

**14.6 Special precautions for user**

No data available

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

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**SECTION 16: Other information****Further information**

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**Full text of H-Statements referred to under section 3.**

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H370 Causes damage to organs.