# Material Safety Data Sheet

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1 Product identifiers**

| | |
|---|---|
| Product Name: | Cannabidiol |
| Other Name: | CBD |
| CAS Number: | 13956-29-1 |
| IUPAC Name: | 2-[(1R,6R)-3-Methyl-6-(1-methylethenyl)-2-cyclohexen-1-yl]-5-pentyl-1,3-benzenediol |

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

Identified Uses: Laboratory chemicals, Manufacture of substances or cosmetic substances

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

Company:

Telephone:

E-mail address for a competent person responsible for the safety data sheet:

**1.4 Emergency Telephone number**

address:

## 2. HAZARDS IDENTIFICATION

**2.1 Classification of the substance or mixture**

This substance does not meet the classification criteria of the EC Directives 67/548/EEC, 1999/45/EC or 1272/2008.

**2.2 Label elements**

This substance does not meet the classification criteria of the EC Directives 67/548/EEC, 1999/45/EC or 1272/2008.

**2.3 Other hazards** none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substances**

| | | |
|---|---|---|
| Product Name: | Cannabidiol 99+% | |
| Synonyms: | CBD | |
| Formula: | $C_{21}H_{30}O_2$ | Molecular Weight: 314.46 g/mol |
| CAS Number: | 13956-29-1 | |

## 4. FIRST AID MEASURES

**4.1 Description of first aid measures**

**General advice**

Consult a doctor and show this safety data sheet.

**If inhaled**

Classification criteria are not yet based on available data

**In case of skin contact**

Classification criteria are not yet based on available data

**In case of eye contact**

Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

**If swallowed**

Classification criteria are not yet based on available data

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

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

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

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

## 5. FIRE-FIGHTING 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**

In combustion, may emit toxic fumes.

**5.3 Precautions for fire-fighters**

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

## 6. ACCIDENTIA!. RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures**

Do not take action without suitable protective clothing - see section 8 of MSDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

**6.2 Environmental precautions**

Do not let product enter drains.

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

Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold allmaterial for appropriate disposal as described under section 13 of MSDS.

**6.4 Reference to other sections**

For required PPE see section 8. For disposal see section 13.

## 7. HANDLING AND STORAGE

**7.1 Precautions for safe handling**

Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

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

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Recommended storage temperature: Store at -20C

**7.3 Specific end uses**

Use in a laboratory fume hood where possible. Refer to employer's COSHH risk assessment.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control parameters**

**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**8.2 Exposure controls**

**Appropriate engineering controls**

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of MSDS are in place.Ensure laboratory is equipped with a safety shower and eye wash station.

**8.3 Personal protective equipment**

**Eye/face protection**

Use appropriate safety glasses.

**Skin protection**

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should beinspected before use. Wash and dry hands thoroughly after handling.

**Body protection**

Wear appropriate protective clothing.

**Respiratory protection**

If risk assessment indicates necessary, use a suitable respirator.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information on basic physical and chemical properties**

| | | | |
|---|---|---|---|
| Appearance | White/yellowish solid | Vapor pressure/ density | No data available |
| Odor | No data available | Relative density | No data available |
| Odor threshold | No data available | Solubility(ies) | No data available |
| pH | Does not apply | Partition coefficient | No data available |
| Melting point | 66 °C | Auto-ignition temperature | No data available |
| Boiling point / range | 189 °C | Decomposition temperature | No data available |
| Flash point | No data available | Viscosity | Does not apply |
| Flammability (sol | No data available | Explosive properties | No data available |
| Upper / lower flammability or explosive limits | No data available | Oxidising properties | No data available |

**9.2 Other safety information**

No data available

## 10. STABILITY AND REACTIVITY

**10.1 Reactivity**

Stable under recommended transport or storage conditions.

**10.2 Chemical stability**

Stable under recommended transport or storage conditions.

**10.3 Possibility of hazardous reactions**

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

**10.4 Conditions to avoid**

Heat, moisture.

**10.5 Incompatible materials**

Strong acids/alkalis, strong oxidising/reducing agents.

**10.6 Hazardous decomposition products**

In combustion may emit toxic fumes. No known decomposition information.

## 11. TOXICOLOGICAL INFORMATION

**11.1 Information on toxicological effects**

**Acute Toxicity**

Classification criteria are not yet based on available data

**Skin corrosion/irritation**

Classification criteria are not yet based on available data

**Serious eye damage/irritation**

Classification criteria are not yet based on available data

**Respiratory or skin sensitization**

Classification criteria are not yet based on available data

**Germ cell mutagenicity**

Classification criteria are not yet based on available data

**Carcinogenicity**

Classification criteria are not yet based on available data

**Reproductive toxicity**

Classification criteria are not yet based on available data

**Specific target organ toxicity - single exposure**

Classification criteria are not yet based on available data

**Specific target organ toxicity - repeated exposure**

Classification criteria are not yet based on available data

**Aspiration hazard**

Classification criteria are not yet based on available data

**Symptoms / Routes of exposure**

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Ingestion: There may be irritation of the throat.

Skin: There may be mild irritation at the site of contact.

Eyes: There may be irritation and redness.

Delayed / Immediate Effects: No known symptoms.

**Additional Information**

RTECS No: VH1600000

Exposure may cause irritaiton of eyes, mucous membranes, upper respiratory tract and skin.

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

## 12. ECOLOGICAL INFORMATION

**12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumlative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Other adverse effects**

May be harmful to the aquatic environment.

## 13. DISPOSAL CONSIDERATIONS

**13.1 Waste treatment methods**

**Product**

Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with National legislation

**13.2 Contaminated packaging**

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with National legislation.

## 14. TRANSPORT INFORMATION

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID and IATA.

**14.1 UN-Number**

No criteria for

**14.2 UN proper shipping name**

No criteria for

**14.3 Transport hazard class(es)**

Not dangerous good

**14.4 Packaging group**

No criteria for

**14.5 Environmental hazards**

This product is not classified as environmentally hazardous according to the UN Model Regulations, nor a marine pollutan taccording to the IMDG Code.

**14.6 Special precautions for users**

No data available

## 15. REGULATORY INFORMATION

This material safety data sheet complies with the Regulation(EC) No 1907/2006 as amended by Regulation (EU) No 453/2010

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

No data available

**15.2 Chemical safety assessment**

A Chemical Safety Assessment has not been made for this product.

## 16. OTHER INFORMATION

**Revision Date** 23.01.20

**Further Information**

The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.