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Material Safety Data Sheet

SECTION 1:CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name：CBDO

Company: Suzhou YACOO Science Co., Ltd.

Address: No.128,FangZhou Road,Suzhou Industral Park,China

Tel：0512-87182055

Fax：0512-87182056

SECTION 2: Hazards identification

2.1Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Flammable solids (Category 1), H228
Skin irritation (Category 2), H315
Eye irritation (Category 2), H319
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
For the full text of the H-Statements mentioned in this Section, see Section 16.

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

Signal Word Danger
Hazard statement(s)
H228Flammable solid.
H315Causes skin irritation.
H319Causes serious eye irritation.
H335May cause respiratory irritation.

Precautionary statement(s)
P210Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P302 + P352IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements

none

Reduced Labeling (<= 125 ml)
Pictogram
Signal Word Danger
Hazard statement(s) none
Precautionary statement(s) none
Supplemental Hazard Statements none

2.3Other 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.

SECTION 3: Composition/information on ingredients
3.1Substances
Formula: C8H16O2
Molecular weight: 144,21 g/mol
CAS-No.: 3010-96-6
EC-No.: 221-140-0

Component	Classification	Concentration
2,2,4,4-Tetramethylcyclobutane-1,3-diol, mixed isomers		
CAS-No. 3010-96-6 EC-No. 221-140-0	Flam. Sol. 1; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H228, H315, H319, H335	<= 100 %

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

SECTION 4: First aid measures
4.1Description of first-aid measures General advice
Consult a physician. Show this material 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
Rinse thoroughly with plenty of water for at least 15 minutes and 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.

4.2Most 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

4.3Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures
5.1Extinguishing media Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2Special hazards arising from the substance or mixture
Carbon oxides
5.3Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.
5.4Further information
Use water spray to cool unopened containers.

SECTION 6: Accidental release measures
6.1Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3Methods and materials for containment and cleaning up
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

6.4Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage
7.1Precautions for safe handling Advice on safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Advice on protection against fire and explosion
Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
For precautions see section 2.2.

7.2Conditions for safe storage, including any incompatibilities Storage conditions
Keep container tightly closed in a dry and well-ventilated place. Store in cool place.
Storage class
Storage class (TRGS 510): 4.1B: Flammable solid hazardous materials
7.3Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection
8.1Control parameters
Ingredients with workplace control parameters
8.2Exposure controls
Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 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 of 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 Regulation (EU) 2016/425 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 particle respirator type N100 (US) or type P3 (EN 143) 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.

SECTION 9: Physical and chemical properties
9.1Information on basic physical and chemical properties
a)Physical state powder
b)Color white
c)Odor No data available
d)Melting point/freezing point Melting point/range: 126 - 129 ° C - lit.
e)Initial boiling point and boiling range 210 - 215 ° C - lit.
f)Flammability (solid, gas)
The substance or mixture is a flammable solid with the category 1.

g)Upper/lower flammability or explosive limits No data available
h)Flash point 52 ° C - closed cup
i)Autoignition temperature No data available
j)Decomposition temperature No data available
k)pH No data available
l)Viscosity
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
m)Water solubility No data available
n)Partition coefficient: n-octanol/water No data available
o)Vapor pressure No data available
p)Density No data available
Relative density No data available
q)Relative vapor density No data available
r)Particle characteristics No data available
s)Explosive properties No data available
t)Oxidizing properties No data available

9.2Other safety information
No data available

SECTION 10: Stability and reactivity
10.1Reactivity
No data available

10.2Chemical stability
Stable under recommended storage conditions.

10.3Possibility of hazardous reactions
No data available

10.4Conditions to avoid
Heat, flames and sparks.

10.5Incompatible materials
Strong oxidizing agents

10.6Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information
11.1Information on toxicological effects
Acute toxicity
Oral: No data available
Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation

Remarks: No data available

Serious eye damage/eye irritation
Remarks: No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
No data available

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2Additional Information
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information
12.1Toxicity
No data available

12.2Persistence and degradability
No data available

12.3Bioaccumulative potential
No data available

12.4Mobility in soil
No data available

12.5Results 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.

12.6Endocrine disrupting properties
No data available

12.7Other adverse effects
No data available

SECTION 13: Disposal considerations
13.1 Waste treatment methods Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information
14.1UN number
ADR/RID: 1325 IMDG: 1325 IATA: 1325
14.2UN proper shipping name
ADR/RID: FLAMMABLE SOLID, ORGANIC, N.O.S. (2,2,4,4-Tetramethylcyclobutane-1,3-diol, mixed isomers)
IMDG:FLAMMABLE SOLID, ORGANIC, N.O.S. (2,2,4,4-Tetramethylcyclobutane-1,3-diol, mixed isomers)
IATA:Flammable solid, organic, n.o.s. (2,2,4,4-Tetramethylcyclobutane-1,3-diol, mixed isomers)
14.3Transport hazard class(es)
ADR/RID: 4.1IMDG: 4.1IATA: 4.1
14.4Packaging group
ADR/RID: IIIMDG: IIIATA: II
14.5Environmental hazards
ADR/RID: noIMDG Marine pollutant: noIATA: no
14.6Special precautions for user
No data available

SECTION 15: Regulatory information
15.1Safety, health and environmental regulations/legislation specific for the substance or mixture
This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2Chemical Safety Assessment
For this product a chemical safety assessment was not carried out

SECTION 16:OTHER INFORMATION
The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users

should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.