

Version 1.0

Issue date: 17/06/2022

Revision date: 17/06/2022

SDS Record Number: CSSS-TCO-010-151558

## Section 1 Chemical Product and Company Identification

**Chemical name:** TUBALL MATRIX 822

**Additional identification:** Not available

**Product code:** Not available

**Identification of the product:** See section 3

### Relevant identified uses of the substance and uses advised against

**Identified uses:** Industrial use as additive in polymers, resins and/or coatings.

**Uses advised against:** Not available

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

	Europe:	USA:	Asia:	China:	India:
<b>Name:</b>	OCSiAl Europe S.a.r.l.	OCSiAl LLC	OCSiAl Asia Pacific Co., Ltd.	OCSiAl Hong Kong Limited	VIMAL INTERTRADE PVT LTD.
<b>Address:</b>	L-3364, Leudelange, 1, rue de la Poudrerie, Grand Duchy of Luxembourg	950 Taylor Station Road Suite W Gahanna, OH 43230, USA	Office 208, Pilot Plant Bldg., Incheon Technopark 12 Gaetbeol-ro, Yeonsu- gu, Incheon, 406-840 Republic of Korea	No. 1102, 11/F, Lippo Sun Plaza, 28 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong	Shivam Centrum, Sahar Road, Koldongri, Above Nexa Showroom, Andheri East, Mumbai – 400 069
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### Emergency telephone Number(24h):

**EMEA** +44 1865 407333 (English) (Carechem 24)

**East/South East Asia** +65 3158 1074 (English, Hindi, Japanese, Korean, Malay, Mandarin) (Carechem 24)

## Section 2 Hazards Identification

**Emergency Overview: Black Pellets. Odorless. Decomposition will produce carbon monoxide and carbon dioxide. Causes serious eye irritation.**

### GHS Classification:

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**Physical hazards**

Not classified

**Health hazards**

Serious eye damage/eye irritation

Category 2A

**Environmental hazards**

Not classified

### Label elements

### Pictogram:



### Signal Word(s):

Warning

### Hazard Statement:

Causes serious eye irritation.

### Precautionary statement

#### Prevention:

Wash hands thoroughly after handling.

Wear eye protection/face protection.

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**Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

**Storage:** Not applicable.

**Disposal:** Not applicable.

**Physical and chemical hazards:** Decomposition will produce carbon monoxide and carbon dioxide.

**Health Hazards:** Causes serious eye irritation.

**Environmental hazards:** Based on all known information, this product does not affect the environment.

**Other hazards:** This product has not been found to have other hazards which are outside the scope of GB30000.2-29.

## Section 3 Composition Information on Ingredients

**Substance/Mixture/Article:** Mixture

**Ingredient(s):**

Chemical Name	CAS No.	Concentration (%)
Polyol ester	Trade secret	75%
Single wall carbon nanotubes	N/A	25%

Undisclosed ingredients include: 1) non-hazard ingredients, and 2) ingredients which are below the cut-off value required by Section 3.3 of GB / T 17519.

## Section 4 First Aid Measures

**In case of inhalation:** Remove person to fresh air and keep comfortable for breathing. Get medical attention.

**In case of skin contact:** Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Wash with plenty of soap and water.

**In case of eyes contact:** Get medical attention.

**In case of ingestion:** Rinse mouth out with water. Do not induce vomiting. Get medical attention.

**Most important symptoms and effects, both acute and delayed:** Causes serious eye irritation.

**To protect playing rescuer advice and the special hints to the doctor:** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Indication of any immediate medical attention and special treatment needed:** Provide general supportive measures and treat symptomatically. In the event of shortness of breath, give oxygen. Keep the victim warm. Observe the patient. Symptoms may delay.

## Section 5 Fire-fighting Measures

**Extinguishing agent**

**Suitable extinguishing media:** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Water fog. Foam.

**Unsuitable extinguishing media:** Do not use water jet.

**Special hazards:** Decomposition will produce carbon monoxide and carbon dioxide.

**Special fire fighting methods and special protective actions for fire-fighters:** Firefighters should wear self-contained breathing apparatus, and wear full body fire service and extinguish fire in the windward direction. Remove the container from the fire to empty place as far as possible. Isolate the accident area, prohibit access to unrelated persons. Contain and handle fire water to prevent

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environmental pollution.

## Section 6 Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures:</b>	Wear suitable protective clothing. Avoid breathing dust. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Evacuate area. Wear suitable protective clothing, gloves and eye/face protection. In case of fire: Positive pressure self-contained breathing apparatus (SCBA). Avoid formation of dust. Provide adequate ventilation. Evacuate area.
<b>Environmental precautions:</b>	Do not allow to enter into surface water or drains. Collect contaminated extinguishing water separately and must not enter the sewage system.
<b>Methods and materials for containment and cleaning up:</b>	Clean spills promptly. Ventilate affected area. Stop leak if safe to do so. Clear up rapidly by scoop or vacuum. Avoid generation and spreading of dust. Collect in closed container and remove to a safe place for disposal by burning.
<b>Precautions to prevent the occurrence of secondary hazards:</b>	Clean up spills immediately to prevent leaks again.

## Section 7 Handling and Storage

### Safe handling

<b>Local and general ventilation:</b>	Provide adequate ventilation.
<b>Safety instructions:</b>	Operators should follow the procedure and use the personal protective equipment recommended by the SDS section 8.
<b>Precautions:</b>	Avoid contact with skin, eyes and clothing. Carry out operations in the open/under local exhaust/ventilation or with respiratory protection. Avoid breathing dust. Take precautionary measures against static discharge.

### Storage

<b>Suitable storage conditions:</b>	Store in dry, well-ventilated area. Store at ambient temperature. Keep container tightly closed. Protect from sunlight. Keep away from open flames, hot surfaces and sources of ignition.
<b>Incompatible materials:</b>	Strong oxidizing agents.
<b>Safe packaging materials:</b>	Keep it in the original container.

## Section 8 Exposure Controls / Personal Protection

<b>Occupational exposure limits:</b>	According to GBZ2.1, the OELs of components are not established.
<b>Biological limits:</b>	No standard has been established.
<b>Engineering controls:</b>	Ensure adequate ventilation. Make sure the workplace is equipped with a safe place to shower, clean eyes and body, and place for safe care.
<b>Personal protection equipment</b>	
<b>Respiratory protection:</b>	In case of inadequate ventilation wear respiratory protection. Selection of respiratory protection must be based on the result of the risk assessment.
<b>Hand protection:</b>	Chemically resistant protective gloves.
<b>Eye protection:</b>	Chemical goggles or safety glasses.
<b>Skin and body protection:</b>	Protective clothing (with elasticated cuffs and closed neck).
<b>Hygiene measures:</b>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working

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period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## Section 9 Physical and Chemical Properties

Appearance:	Black Pellets
Odor:	Odorless
Odor threshold:	No data available
Molecular formula:	Not applicable
Molecular weight:	Not applicable
Melting point/freezing point (°C):	No data available
Boiling point, initial boiling point (°C):	No data available
Density:	No data available
Relative density(H <sub>2</sub> O=1):	No data available
Vapor pressure (20°C) (kPa):	No data available
Partition coefficient (n-octanol/water):	No data available
Solubility in water:	No data available
Solubility in organic solvents:	No data available
Flash point (°C):	No data available
Auto-ignition temperature (°C):	No data available
Flammability limit - lower (%):	No data available
Flammability limit - upper (%):	No data available
Decomposition temperature (°C):	No data available
Flammability (solid, gas):	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limit - lower (%):	No data available
Explosive limit - upper (%):	No data available
pH value:	No data available
Viscosity (mPa · S):	No data available
Relative vapor density (air=1):	No data available
Relative evaporation rate (n-butyl acetate=1):	No data available

## Section 10 Stability and Reactivity

Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
Conditions to avoid:	Incompatible materials. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Carbon dioxide. Carbon monoxide.

## Section 11 Toxicological Information

Acute toxicity	
LD50(Oral, Rat):	Not available

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LD50(Dermal, Rat):	Not available
LC50(Inhalation, Rat):	Not available
Skin corrosion/Irritation:	Not classified
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

## Section 12 Ecological Information

### Ecotoxicity

LC50 (Fish, 96h)	Not available
EC50 (Daphnia, 48h)	Not available
EC50 (Algae, 72h):	Not available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available

## Section 13 Disposal Considerations

<b>Residual waste</b>	Recycling as much as possible. If recycling is not possible, use incineration methods for disposal. Do not dispose of this product by means of discharge to the sewer.
<b>Contaminated packaging</b>	Empty containers or pads may retain some product residue, so beware of label warnings even when empty containers. These materials and their containers must be disposed of in a safe manner. Empty containers should be returned to the manufacturer or sent to a national / local approved waste disposal site.
<b>Local disposal regulations</b>	Waste disposal should refer to the relevant national and local laws and regulations, the waste chemicals for recycling, or packed in sealed containers, to a special waste disposal sites.

## Section 14 Transport Information

UN Number:	Not regulated
UN Proper shipping name:	Not regulated
Transport hazard Class:	Not regulated
Packaging group:	Not regulated
Marine pollutant (yes/no):	No

### Transport special precautions:

- Grounding chains should be equipped with tank or car during transportation, hole plate can be set in the tank to prevent static electricity generated by shaking;
- Exhaust pipe of the vehicle which transports this product shall be equipped with fireproofing equipment, Do not handle with

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the machinery or tools which may produce spark easily;

- Do not package or transport with oxidant, food chemicals or others;
- Prevent from sunlight exposure, rain and heat during transportation, in summer, best to transport in the morning or evening;
- Keep away from fire, heat source and high temperature when stops on the way;
- Follow the route as prescribed during highway transportation, do not stay in residential areas and densely populated area;
- Prohibit humping in railway transportation;
- Transport vehicles should be equipped with corresponding fire equipment and spill contingency processing equipment.

## 15.Regulatory Information

The following laws, regulations, rules and standards, provide corresponding provisions of the management of chemicals:

Name	Relevant Inventories	Listed Or Not
Measures On Safety Management Of Hazardous Chemicals	Inventory Of Hazardous Chemicals	Not listed
	The First Batch Of Key Regulatory List Of Hazardous Chemicals	Not listed
Measures On New Substance Environmental Management	The Inventory Of Existing Chemical Substance In China	Single walled carbon nanotubes are listed with its element "Carbon" (CAS-No: 7440-44-0)
Provisions On Environmental Management Of First Import And Export Of Toxic Chemicals	China Strictly Restricted List Of Import And Export Of Toxic Chemicals	Not listed

## Section 16 Other Information

### Indication of changes:

Version 1.0 Amended by GB/T16483 and GB/T 17519.

### Abbreviations:

CAS: Chemical Abstracts Service

LC50: Lethal Concentration 50

EC50: Concentration for 50% of maximal effect

LD50: Lethal dose 50%

PC-TWA: time-weighted average allowable concentration, average allowable concentration in 8h working day, 40h work week.

PC-STEL: Short-Term Exposure Tolerance, the concentration allowed to be exposed in short-term (15 minutes).

IARC: International Agency for Research on Cancer

ACGIH: US Government Conference of Industrial Hygienists

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Dangerous Goods

EINECS: European Inventory of Existing commercial Chemical Substances

IATA: International Air Transport Association

ICAO-TI: International Civil Aviation Organization The International Civil Aviation Covenant

### Disclaimer:

Revision: All recent revision(s) are noted by a bold triangle pointed to right '►'.

Disclaimer: 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. It is the user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient for the use of this product.



# Safety Data Sheet

According to GB/T 16483-2008 and GB/T 17519-2013

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