

## SECTION 1 Chemical product and company identification

**Chemical English name** : TUBALL MATRIX 605

### Supplier

Ossia Asia Pacific Co., Ltd.  
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### Emergency number

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

**China** : 400 120 6011 (English, Mandarin) (toll-free, access from China only)

**中国 (大陆, 24 小时应急电话)** : \*\*0532 8388 9090 (英语, 中文)

**China (Mainland)** : \*\*0532 8388 9090 (English, Chinese; 24-hour emergency call)

**Recommended use of the chemical** : Industrial use as additive in polymers, resins and/or coatings

**Restricted use of the chemical** : No additional information available

## SECTION 2 Hazards identification

### Emergency overview

Viscous. Paste. Black. Characteristic

### GHS hazard classification

Other hazards not mentioned above are Not applicable or No data is available.

### Label elements

No data available

### Physical and chemical hazards

No additional information available

### Health hazards

No additional information available

### Environmental hazards

No additional information available

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### Other hazards

No additional information available

## SECTION 3 Composition/information on ingredients ►

**Product form** : Mixture.

Ingredient(s)	Concentration or concentration ranges (w/w %)	CAS No.	Classification (GHS CN)
Siloxanes and Silicones	70	Trade Secret	Not classified
Siloxanes and silicones, vinyl group-terminated	25	Trade Secret	Not classified
Carbon *	5	N/A	Serious eye damage/eye irritation, Category 2

Comments : \* TUBALL™.

## SECTION 4 First-aid measures

### Description of necessary first-aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
Get medical attention
- First-aid measures after skin contact : Take off immediately all contaminated clothing.  
Wash contaminated clothing before reuse.  
Wash with plenty of soap and water.  
Wash skin with plenty of water
- First-aid measures after eye contact : Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
Get medical attention
- First-aid measures after ingestion : Rinse mouth out with water.  
Do not induce vomiting.  
Get medical attention

### Most important symptoms/effects

No additional information available

### Advices for first aid responders

No additional information available

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### Notes for the doctor

Other medical advice or treatment : Treat symptomatically

## SECTION 5 Fire-fighting measures

### Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Water spray  
Dry powder  
Foam

Unsuitable extinguishing media : Do not use water jet

### Specific hazards

Hazardous decomposition products in case of fire : Toxic fumes may be released

### Advice for firefighters and protective measures

Firefighting instructions : Use water spray or fog for cooling exposed containers  
Protection during firefighting : Full face mask  
Positive pressure self-contained breathing apparatus (SCBA)  
Do not attempt to take action without suitable protective equipment  
Self-contained breathing apparatus  
Complete protective clothing

## SECTION 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition  
General measures : No additional information available  
Personal Precautions, Protective Equipment and Emergency Procedures : No additional information available

### For non-emergency personnel

Protective equipment : Wear suitable protective clothing  
Emergency procedures : Ventilate spillage area  
Ensure adequate ventilation  
Evacuate area.

### For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment  
Wear suitable protective clothing, gloves and eye/face protection  
In case of fire: Positive pressure self-contained breathing apparatus (SCBA)  
For further information refer to section 8: "Exposure controls/personal protection"  
Emergency procedures : Provide adequate ventilation  
Evacuate area.

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Avoid inhalation of vapours

### Environmental precautions

Avoid release to the environment

Do not allow to enter into surface water or drains

Collect contaminated extinguishing water separately and must not enter the sewage system

### Methods and material for containment and cleaning up

Methods for cleaning : No additional information available

For containment : Clean spills promptly  
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Ventilate affected area  
Stop leak if safe to do so.

### Prevention measures for secondary accidents

Prevention Measures for Secondary Accidents : No additional information available

Other information : Dispose of materials or solid residues at an authorized site

## SECTION 7 Handling and storage

### Handling

Precautions for safe handling : Ensure good ventilation of the work station  
Wear personal protective equipment  
Avoid contact with skin, eyes and clothing  
Carry out operations in the open/under local exhaust/ventilation or with respiratory protection  
To prevent thermal burns avoid contact with hot product

Hygiene measures : Wash contaminated clothing before reuse.  
Do not eat, drink or smoke when using this product.  
Always wash hands after handling the product

Local and general ventilation : No additional information available

### Storage

Storage conditions : Store in dry, well-ventilated area  
Store at ambient temperature  
Keep container tightly closed.  
Protect from sunlight.  
Store in a well-ventilated place.  
Keep cool.

Material used in packaging/containers : No additional information available

Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition

Information on mixed storage : Store away from water (including sewage plant)

## SECTION 8 Exposure controls / Personal protection equipment

### Occupational exposure limits

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<b>TUBALL™</b>	
<b>Japan - Occupational Exposure Limits</b>	
Exposure limits (JSOH)	<b>【Occupational exposure limits for dusts】 (Class 1) Respirable dust 0.5mg/m3 Total dust 2mg/m3</b>

### Biological limit values

No additional information available

### Monitoring methods

No additional information available

### Appropriate engineering controls

Ensure good ventilation of the work station

### Personal protective equipment

- Personal protective equipment : Safety glasses  
Gloves  
Protective clothing
- Environmental exposure controls : Avoid release to the environment.
- Hand protection : Chemically resistant protective gloves

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves, Disposable gloves.	Nitrile rubber (NBR), Polyvinylchloride (PVC).		≥ 0.18		

- Eye protection : Chemical goggles or safety glasses
- Skin and body protection : Protective clothing (with elasticated cuffs and closed neck)
- Respiratory protection : In case of inadequate ventilation wear respiratory protection.  
Selection of respiratory protection must be based on the result of the risk assessment

Personal protective equipment symbol(s)



## SECTION 9 Physical and chemical properties

- Physical state** : Solid
- Appearance** : Viscous. Paste
- Colour** : Black
- Odour** : Characteristic
- pH** : No data available

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<b>Melting point</b>	: No data available
<b>Freezing point</b>	: Not applicable
<b>Boiling point</b>	: Not applicable
<b>Flash point</b>	: > 280 °C (closed cup) (Siloxanes and silicones)
<b>Auto-ignition temperature</b>	: Not applicable
<b>Decomposition temperature</b>	: 300 °C (Siloxanes and silicones).
<b>Flammability</b>	: Non flammable.
<b>Vapour pressure</b>	: No data available
<b>Relative vapour density at 20°C</b>	: No data available
<b>Relative density</b>	: 0.97 25°C (Siloxanes and silicones)
<b>Density</b>	: No data available
<b>Solubility</b>	: Insoluble in: Water, Organic solvents.
<b>Partition coefficient n-octanol/water (Log Pow)</b>	: No data available
<b>Viscosity, kinematic</b>	: Not applicable
<b>Explosive limits (vol %)</b>	: Not applicable
<b>Lower explosion limit</b>	: No data available
<b>Upper explosion limit</b>	: No data available
<b>Radioactive</b>	: No
<b>Oxidising properties</b>	: Non oxidizing

## SECTION 10 Stability and reactivity

<b>Chemical stability</b>	: Stable under normal conditions
<b>Reactivity</b>	: Stable under normal conditions
<b>Possibility of hazardous reactions</b>	: None known
<b>Conditions to avoid</b>	: Keep away from open flames, hot surfaces and sources of ignition
<b>Incompatible materials</b>	: Strong oxidizing agents
<b>Hazardous decomposition products</b>	: Thermal decomposition generates : Carbon dioxide Carbon monoxide Amorphous silica
<b>Other properties</b>	: No additional information available

## SECTION 11 Toxicological information

### Acute toxicity

Acute toxicity (oral)	: No data available
Acute toxicity (dermal)	: No data available
Acute toxicity (inhalation)	: No data available

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Siloxanes and Silicones	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg

### Skin corrosion/irritation

Skin corrosion/irritation : No data available

### Serious eye damage/eye irritation

Serious eye damage/irritation : No data available

### Respiratory or skin sensitisation

Respiratory or skin sensitisation : No data available

### Germ cell mutagenicity

Germ cell mutagenicity : No data available

### Carcinogenicity

Carcinogenicity : No data available

### Reproductive toxicity

Reproductive toxicity : No data available

TUBALL™	
NOAEL (animal/female, F0/P)	no adverse effects seen at highest dose tested > 1000 mg/kg bw/day - OECD 422
NOAEL (animal, F1)	> 1000 mg/kg bw/day - no adverse effects seen at highest dose tested on prenatal development (conceptus to birth) - OECD 422
NOAEL (animal, F1)	> 1000 mg/kg bw/day - no adverse effects seen at highest dose tested on postnatal development (pup) - OECD 422

### STOT - single exposure

STOT-single exposure : No data available

### STOT - repeated exposure

STOT-repeated exposure : No data available

TUBALL™	
NOAEL (oral, rat, 90 days)	no adverse effects seen at highest dose tested > 1000 mg/kg bodyweight/day - OECD 422

### Aspiration hazard

Aspiration hazard : No data available

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### SECTION 12 Ecological information

#### Ecotoxicity

- Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
- Hazardous to the aquatic environment, short-term (acute) : No data available
- Hazardous to the aquatic environment, long-term (chronic) : No data available
- No additional information available

#### Persistence and degradability

<b>TUBALL™.</b>	
Not rapidly degradable	Yes

#### Bioaccumulative potential

No additional information available

#### Mobility in soil

No additional information available

#### Other adverse effects

Classification procedure (Ozone) : No data available

### SECTION 13 Disposal considerations

- Waste treatment methods** : Disposal through controlled incineration or authorised waste dump, Dispose of contents/container in accordance with licensed collector's sorting instructions.
- Contaminated container and packaging** : No additional information available
- Additional information** : Clean up even minor leaks or spills if possible without unnecessary risk.
- Product/Packaging disposal recommendations** : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- Sewage disposal recommendations** : Prevent entry to sewers and public waters
- Regional legislation (waste)** : Dispose of this material and its container at hazardous or special waste collection point

### SECTION 14 Transport information

Overland transport (JT/T 617)	Transport by sea	Air transport
<b>UN number</b>		
Not regulated	Not regulated	Not regulated



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Overland transport (JT/T 617)	Transport by sea	Air transport
<b>Proper shipping name</b>		
Not regulated	Not regulated	Not regulated
<b>Transport document description</b>		
Not regulated	Not regulated	Not regulated
<b>Transport hazard class(es)</b>		
Not regulated	Not regulated	Not regulated
Not regulated	Not regulated	Not regulated
<b>Packing group</b>		
Not regulated	Not regulated	Not regulated
<b>Environmental hazards</b>		
Not regulated	Not regulated	Not regulated

### Special transport precautions

Overland transport (JT/T 617)

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

## SECTION 15 Regulatory information

### New Chemical Substance Environmental Management Registration Measures (MEE Order 12 of 2020)

**Inventory of Existing Chemical Substances** : Contains listed substance(s)

**in China (IECSC)**

Octamethylcyclotetrasiloxane

Siloxanes and silicones, vinyl group-terminated

TUBALL™ are listed with its element “Carbon”

### Regulations on the Safe Management of Hazardous Chemicals (Decree 591 of the State Council)

**Catalogue of Hazardous Chemicals (2015)** : Contains Hazardous Chemical(s)

Octamethylcyclotetrasiloxane

TUBALL™ are not listed

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### SECTION 16 Other information

#### Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
WGK	Water Hazard Class
OEL	Occupational Exposure Limit
EC-No.	European Community number
CAS-No.	Chemical Abstract Service number
EN	European Standard
NOEC	No-Observed Effect Concentration
NOAEC	No-Observed Adverse Effect Concentration
SDS	Safety Data Sheet
LOAEL	Lowest Observed Adverse Effect Level
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
vPvB	Very Persistent and Very Bioaccumulative
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant
IATA	International Air Transport Association
PBT	Persistent Bioaccumulative Toxic
NOAEL	No-Observed Adverse Effect Level
N.O.S.	Not Otherwise Specified
IOELV	Indicative Occupational Exposure Limit Value
DMEL	Derived Minimal Effect level
LC50	Median lethal concentration
EC50	Median effective concentration
OECD	Organisation for Economic Co-operation and Development
LD50	Median lethal dose
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
IARC	International Agency for Research on Cancer
IMDG	International Maritime Dangerous Goods
TLM	Median Tolerance Limit
BLV	Biological limit value
ATE	Acute Toxicity Estimate
Revision :	All recent revision(s) are noted by a bold triangle pointed to right '►'.

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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 (SDS), China

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