

SECTION 1 Chemical product and company identification

Chemical name : TUBALL LATEX H2O_DM

Details of the supplier

欧洲:	美国:	亚洲:	中国:	印度:
OCSiAl Europe S.a.r.l. L-3364, Leudelange, 1, rue de la Poudrerie, Grand Duchy of Luxembourg	OCSiAl LLC 500 S Front St., Suite 860, Columbus, OH 43215, USA	OCSiAl Asia Pacific Co., Ltd. Office 208, Pilot Plant Bldg., Incheon Technopark 12 Gaetbeol-ro, Yeonsu- gu, Incheon, 406-840 Republic of Korea	OCSiAl Hong Kong Limited No. 1102, 11/F, Lippo Sun Plaza, 28 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong	VIMAL INTERTRADE PVT LTD. Shivam Centrum, Sahar Road, Koldongri, Above Nexa Showroom, Andheri East, Mumbai – 400 069
T +352 27 99 03 73 09.00-17.00 GMT+2 europe@ocsial.com	T +1 415 906 5271 09.00-17.00 GMT-4 usa@ocsial.com	T +82 32 260 0407 09.00-17.00 GMT+9 asiapacific@ocsial.com	T +852 3575 3946 09:00-17:00; GMT+8 china@ocsial.com	T +91 22 6288 4200 09:00-17:00; GMT+5.5 india@ocsial.com

Emergency phone 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

SECTION 2 Hazards identification

Emergency overview

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

Other hazards

No additional information available

SECTION 3 Composition/information on ingredients ►

Product form : Mixture.

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Ingredient(s)	Concentration or concentration ranges (w/w %)	CAS No.
Water	≤ 98.8	7732-18-5
Leukanol	1	9084-06-4
Single wall carbon nanotubes*	0.2	N/A

Comments : * Single wall carbon nanotubes 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.
First-aid measures after skin contact : Wash skin with plenty of water
First-aid measures after eye contact : Rinse eyes with water as a precaution
First-aid measures after ingestion : Rinse mouth out with water.
Get medical advice/attention.

Most important symptoms/effects

No additional information available

Advices for first aid responders

No additional information available

Notes for the doctor

Other medical advice or treatment : Treat symptomatically

SECTION 5 Fire-fighting measures

Extinguishing media

- Suitable extinguishing media : Water spray
Dry powder
Foam
Carbon dioxide
Unsuitable extinguishing media : No additional information available

Specific hazards

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

Advice for firefighters and protective measures

- Firefighting instructions : No additional information available
Protection during firefighting : Do not attempt to take action without suitable protective equipment
Self-contained breathing apparatus
Complete protective clothing

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SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

- 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

For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment
For further information refer to section 8: "Exposure controls/personal protection"
- Emergency procedures : Stop leak if safe to do so.
Provide adequate ventilation
Evacuate area.
Avoid contact with skin, eyes and clothing

Environmental precautions

- Avoid release to the environment

Methods and material for containment and cleaning up

- Methods for cleaning : No additional information available
- For containment : Ventilate affected area
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Collect spillage.
Clean spills promptly

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
- Hygiene measures : 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 a well-ventilated place.
Keep cool.
- Material used in packaging/containers : No additional information available

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Incompatible products : Strong oxidizing agents.
Storage area : Store away from heat
Special rules on packaging : Keep container tightly closed

SECTION 8 Exposure controls / Personal protection equipment

Occupational exposure limits

Single wall carbon nanotubes

Japan - Occupational Exposure Limits

Exposure limits (JSOH)	【Occupational exposure limits for dusts】 (Class 1) Respirable dust 0.5mg/m ³ Total dust 2mg/m ³
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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
Protective clothing
Gloves
Environmental exposure controls : Avoid release to the environment.
Hand protection : Protective gloves

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

Eye protection : Safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s)



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SECTION 9 Physical and chemical properties

Physical state	: Liquid
Appearance	: No data available
Colour	: Black
Odour	: Odourless
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 100 ° C (Water)
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 ° C	: No data available
Density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available
Radioactive	: No

SECTION 10 Stability and reactivity

Chemical stability	: Stable under normal conditions
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use
Conditions to avoid	: None under recommended storage and handling conditions (see section 7)
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced
Other properties	: No additional information available

SECTION 11 Toxicological information

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

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Acute toxicity (inhalation) : No data available

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

Single wall carbon nanotubes	
NOAEL (animal/female, F0/P)	> 1000 mg/kg bw/day - OECD 422
NOAEL (animal, F1)	> 1000 mg/kg bw/day - for adverse effects on prenatal development (conceptus to birth) - OECD 422
NOAEL (animal, F1)	> 1000 mg/kg bw/day - for adverse effects on postnatal development (pup) - OECD 422

STOT - single exposure

STOT-single exposure : No data available

STOT - repeated exposure

STOT-repeated exposure : No data available

Single wall carbon nanotubes	
NOAEL (oral, rat, 90 days)	> 1000 mg/kg bodyweight/day - OECD 422

Aspiration hazard

Aspiration hazard : No data available

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

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long-term (chronic)

No additional information available

Persistence and degradability

Single wall carbon nanotubes

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

: 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
UN number		
Not regulated	Not regulated	Not regulated
Proper shipping name		
Not regulated	Not regulated	Not regulated
Transport document description		
Not regulated	Not regulated	Not regulated
Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
Not regulated	Not regulated	Not regulated

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Overland transport (JT/T 617)	Transport by sea	Air transport
Packing group		
Not regulated	Not regulated	Not regulated
Environmental hazards		
Not regulated	Not regulated	Not regulated

Special transport precautions

Special rules on packaging : Keep container tightly closed

Overland transport (JT/T 617)

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15 Regulatory information

Regulation name	Specific information	
Regulations on the Safety Management of Hazardous Chemicals	Hazardous Chemicals List	Single-walled carbon nanotubes are not listed
	List of the first batch of critically regulated hazardous chemicals	Single-walled carbon nanotubes are not listed
Environmental management regulations for the first import of chemicals and the import and export of toxic chemicals set	List of Toxic Chemicals Strictly Restricted from Import and Export in China	Single-walled carbon nanotubes are not listed
Measures for the Environmental Management of New Chemical Substances	Inventory of Existing Chemical Substances in China (IECSC)	Single walled carbon nanotubes are listed with its element "Carbon" (CAS-No: 7440-44-0); All other components are listed

SECTION 16 Other information

Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
WGK	Water Hazard Class
OEL	Occupational Exposure Limit
EN	European Standard
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

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Abbreviations and acronyms

PNEC	Predicted No-Effect Concentration
DNEL	Derived-No Effect Level
vPvB	Very Persistent and Very Bioaccumulative
OECD	Organisation for Economic Co-operation and Development
IOELV	Indicative Occupational Exposure Limit Value
CAS-No.	Chemical Abstract Service number
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
LC50	Median lethal concentration
BLV	Biological limit value
LD50	Median lethal dose
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ATE	Acute Toxicity Estimate
DMEL	Derived Minimal Effect level
IMDG	International Maritime Dangerous Goods
LOAEL	Lowest Observed Adverse Effect Level
EC50	Median effective concentration
NOEC	No-Observed Effect Concentration
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
PBT	Persistent Bioaccumulative Toxic
STP	Sewage treatment plant
SDS	Safety Data Sheet
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
EC-No.	European Community number
N.O.S.	Not Otherwise Specified

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.

SDS CN

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