

## Safety Data Sheet

In accordance with the Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures published in the Official Journal numbered 29204 on December 13, 2014

Issue date: 6/7/2021 Revision date: 6/9/2022 Version: 2.1

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier ▶

Product form :Mixture

Trade name :TUBALL MATRIX 207

Type of product :Nanoform embedded in a matrix

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

Use of the substance/mixture : Industrial use as additive in polymers, resins and/or coatings

#### 1.3. Details of the supplier of the safety data sheet ▶

#### Supplier

Europe:

OCSiAl Europe S.a.r.l. L-3364, Leudelange, 1, rue de la Poudrerie, Grand Duchy of Luxembourg T +352 27 99 03 73 09.00-17.00 GMT+2

### 1.4. Emergency telephone number ▶

Europe:

+352 27 99 03 73 09.00-17.00; GMT+2

europe@ocsial.com

Türkiye: Acil: 112

Ulusal Zehir Merkezi (UZEM): 114

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Classification according to Regulation (OG) 11.12.2013 - 28848 [SEA]

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317

Full text of H-statements: see section 16

Adverse physicochemical, human health and : Caus

: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

environmental effects

#### 2.2. Label elements

### Classification according to Regulation (OG) 11.12.2013 - 28848 [SEA]

Hazard pictograms (SEA)



GHS07

Signal word (SEA) : Warning

Hazardous ingredients : Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.



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Hazard statements (SEA)

: H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

Precautionary statements (SEA)

: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face with soap and water thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - IF ON SKIN: Wash with plenty of water/...

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P321 - Specific treatment (see on this label).

P332+P313 - If skin irritation occurs: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards

#### Other hazards not contributing to the classification

No additional information available

### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (OG) 11.12.2013 - 28848 [SEA]
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	(CAS-No.) 68609-97-2 (EC-No.) 271-846-8 (EC-No.) 603-103-00-4	90	Skin Irrit. 2, H315 Skin Sens. 1, H317
Single wall carbon nanotubes*	(EC-No.): 943-098-9	10	Eye Irrit. 2, H319

Comments : \* Single wall carbon nanotubes TUBALL™

Full text of H-statements: see section 16

### **SECTION 4: First aid measures**

### 4.1. Description of 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. Take off contaminated clothing. If skin irritation or rash

occurs: Get medical advice/attention.

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy First-aid measures after eye contact

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. Get medical advice/attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact

: Causes skin irritation. May cause an allergic skin reaction. Irritation.

Symptoms/effects after eye contact : Causes serious eye irritation. Eye irritation.



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### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Unsuitable extinguishing media Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture ▶

Fire hazard : Flammable vapours can accumulate in head space of closed systems. Residue may be

flammable and explosive.

Explosion hazard May form flammable/explosive vapour-air mixture.

Carbon dioxide. Carbon monoxide. Hazardous decomposition products in case of fire

## 5.3. Advice for firefighters ▶

Firefighting instructions : Do not enter fire area without proper protective equipment, including respiratory protection.

Eliminate all ignition sources if safe to do so. Evacuate area.

Protection during firefighting Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

# **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing.

**Emergency procedures** Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing

dust/fume/gas/mist/vapours/spray.

#### 6.1.2. 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** : Provide adequate ventilation. Evacuate area. Avoid inhalation of vapours.

#### 6.2. Environmental precautions

Avoid release to the environment.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up Mechanically recover the product.

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

### 6.4. Reference to other sections ▶

For disposal of contaminated materials refer to section 13: "Disposal considerations". For further information refer to section 8: "Exposure controls/personal protection".

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear

personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.



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Hygiene measures

Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities ▶

: Store in a well-ventilated place. Keep cool. Storage conditions

Incompatible products Oxidizing agent.

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

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

: Keep only in original container. Keep container tightly closed. Special rules on packaging

### 7.3. Specific end use(s)

No additional information available

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2)			
DNEL/DMEL (Workers)			
Long-term - systemic effects, dermal	1 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	3.6 mg/m³		
DNEL/DMEL (General population)			
Long-term - systemic effects,oral	0.5 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	0.87 mg/m³		
Long-term - systemic effects, dermal	0.5 mg/kg bodyweight/day		
PNEC (Water)	PNEC (Water)		
PNEC aqua (freshwater)	0.106 mg/l		
PNEC aqua (marine water)	0.011 mg/l		
PNEC aqua (intermittent, freshwater)	0.072 mg/l		
PNEC (Sediment)			
PNEC sediment (freshwater)	307.16 mg/kg dwt		
PNEC sediment (marine water)	30.72 mg/kg dwt		
PNEC (STP)			
PNEC sewage treatment plant	10 mg/l		

Single wall carbon nanotubes		
DNEL/DMEL (Workers)		
Acute - systemic effects, dermal	No hazard identified	
Acute - systemic effects, inhalation	Low hazard (no threshold identified)	
Acute - local effects, dermal	No hazard identified	
Acute - local effects, inhalation	Low hazard (no threshold identified)	
Long-term - systemic effects, dermal	No hazard identified	
Long-term - local effects, dermal	No hazard identified	
Long-term - local effects, inhalation	Low hazard (no threshold identified)	



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Single wall carbon nanotubes		
DNEL/DMEL (General population)		
Acute - systemic effects, dermal	No hazard identified	
Acute - systemic effects, inhalation	Low hazard (no threshold identified)	
Acute - systemic effects, oral	No hazard identified	
Acute - local effects, dermal	No hazard identified	
Acute - local effects, inhalation	No hazard identified	
Long-term - systemic effects, dermal	No hazard identified	
Long-term - local effects, dermal	No hazard identified	
Long-term - local effects, inhalation	No hazard identified	
PNEC (Water)		
PNEC aqua (freshwater)	No hazard identified	
PNEC aqua (marine water)	No hazard identified	
PNEC (Sediment)		
PNEC sediment (freshwater)	No hazard identified	
PNEC sediment (marine water)	No hazard identified	
PNEC (Soil)		
PNEC soil	No hazard identified	
PNEC (Oral)		
PNEC oral (secondary poisoning)	No potential to cause toxic effects if accumulated (in higher organisms) via the food chain	
PNEC (STP)		
PNEC sewage treatment plant	No data available: testing technically not feasible	

## 8.2. Exposure controls ▶

Appropriate engineering controls Personal protective equipment Hand protection

- : Ensure good ventilation of the work station.
- : Gloves. Safety glasses. Protective clothing.
- : The suitability for a specific workplace should be discussed with the producers of the protective gloves. Chemically resistant protective gloves.

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves, Disposable gloves	Butyl rubber		>0.18		
Reusable gloves, Disposable gloves	Nitrile rubber (NBR)		>0.18		
Reusable gloves, Disposable gloves	Neoprene rubber (HNBR)		>0.18		

Eye protection

Skin and body protection

Respiratory protection

: Chemical goggles or safety glasses. Emergency eye wash fountain with clean water. Safety glasses

: Wear suitable protective clothing

: 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)







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Environmental exposure controls : Avoid release to the environment.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state Solid

Appearance Flakes. Pasty.

Colour Black Odour Slight

Odour threshold No data available рΗ No data available No data available pH solution Relative evaporation rate (butylacetate=1) No data available

Melting point > 200 °C (Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.)

Freezing point Not applicable Boiling point No data available

142 °C (Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.) Flash point

Auto-ignition temperature Not applicable

> 200 °C (Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.) Decomposition temperature

Flammability (solid, gas) : Non flammable. Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available Solubility : Insoluble in water. Partition coefficient n-octanol/water (Log Pow) : No data available Viscosity, kinematic : Not applicable Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties : No data available Explosive limits : Not applicable

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Oxidizing agent.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.



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### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity (oral) Not classified Acute toxicity (dermal) Not classified Acute toxicity (inhalation) Not classified

Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2)	
LD50 oral rat > 26.8 g/kg	
LD50 dermal rabbit	> 4000 nl/kg
LC50 Inhalation - Rat	> 0.15 mg/l - 7 Hours

Skin corrosion/irritation : Causes skin irritation. Serious eye damage/irritation Causes serious eye irritation. Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified

Single wall carbon nanotubes	
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 - 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 : Not classified STOT-repeated exposure : Not classified

Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2)		
LOAEL (dermal, rat/rabbit, 90 days)	10 mg/kg bodyweight/day	
NOAEL (dermal, rat/rabbit, 90 days)  1 mg/kg bodyweight/day		
Single wall carbon nanotubes		
NOAEL (oral, rat, 90 days)	no adverse effects seen at highest dose tested > 1000 mg/kg bodyweight/day - OECD 422	

Aspiration hazard : Not classified

# **SECTION 12: Ecological information**

# 12.1. Toxicity

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)

: Not classified

Hazardous to the aquatic environment, long-term

: Not classified

(chronic)

Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2)		
LC50 fish - 96h	> 100 mg/l Oncorhynchus mykiss (Rainbow trout) - OECD 203	
EC50 crustacea - 48h	7.2 mg/l Daphnia magna (Water flea) - OECD 202	
EC50 algae - 72h	843.75 mg/l Selenastrum capricornutum - OECD 201	



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### 12.2. Persistence and degradability

Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2)	
Persistence and degradability Readily biodegradable.	
Biodegradation	87 % - 28 days - OECD 301F

### 12.3. Bioaccumulative potential

Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2)	
Partition coefficient n-octanol/water (Log Pow)	> 3.77 (20 °C) - OECD 107

### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

Component		
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2)	This substance/mixture does not meet the PBT criteria according to the Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures published in the Official Journal numbered 29204 on December 13, 2014  This substance/mixture does not meet the vPvB criteria according to the Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures published in the Official Journal numbered 29204 on December 13, 2014	
Single wall carbon nanotubes	This substance/mixture does not meet the PBT criteria according to the Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures published in the Official Journal numbered 29204 on December 13, 2014  This substance/mixture does not meet the vPvB criteria according to the Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures published in the Official Journal numbered 29204 on December 13, 2014	

#### 12.6. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Regional legislation (waste) : Dispose of this material and its container at hazardous or special waste collection point.

Disposal must be done according to official regulations.

Waste Management Regulation published in the Official Journal numbered 29314 on April

2, 2015.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : Prevent entry to sewers and public waters.

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.

Additional information : Clean up even minor leaks or spills if possible without unnecessary risk.

European List of Waste (LoW) code : 06 13 99 - wastes not otherwise specified

### **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

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ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated for transport				
14.2. UN proper shippin	g name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard o	class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	ards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary informatio	n available	ı	ı	ı

### 14.6. Special precautions for user

#### **Overland transport**

No data available

#### Transport by sea

No data available

### Air transport

No data available

#### **Inland waterway transport**

No data available

# Rail transport

No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable



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## **SECTION 15: Regulatory information**

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

#### 15.1.1. National regulations

Local regulations (Turkey)

: Regulation on Transportation of Dangerous Goods by Road published in the Official Journal numbered 28801 on October 24, 2013

Personal Protective Equipment Regulation published in the Official Journal numbered 30761 on May 1, 2019

Regulation on Use of Personal Protective Equipments in Workplaces published in the Official Journal numbered 28695 on July 2, 2013

Occupational Health and Safety Regulation published in the Official Journal numbered 25311 on December 9, 2003

Regulation on Test Methods that will be Applied to Determine the Physicochemical, Toxicological and Ecotoxicological Properties of Substances and Mixtures published in the Official Journal numbered 28848 on December 11, 2013

Regulation on Health and Safety Precautions When Working with Chemical Substances published in the Official Journal numbered 28733 on August 12, 2013

Regulation on Health and Safety Precautions When Working with Carcinogenic and Mutagenic Substances published in the Official Journal numbered 28730 on August 6, 2013.

This product doesn't contain any substances that is controlled or prohibited for use according to the Regulation on Ozone Depleting Substances published in the Official Journal numbered 30031 on April 7, 2017.

Substance(s) are not subject to Regulation on Persistent Organic Pollutants (O.G. 14.11.2018-30595)

#### **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			
ATE	Acute Toxicity Estimate			
BLV	Biological limit value			
CAS-No.	Chemical Abstract Service number			
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008			
DMEL	Derived Minimal Effect level			
DNEL	Derived-No Effect Level			
EC50	Median effective concentration			
EC-No.	European Community number			
EN	European Standard			
IATA	International Air Transport Association			
IMDG	International Maritime Dangerous Goods			
LC50	Median lethal concentration			
LD50	Median lethal dose			
LOAEL	Lowest Observed Adverse Effect Level			
NOAEC	No-Observed Adverse Effect Concentration			
NOAEL	No-Observed Adverse Effect Level			
NOEC	No-Observed Effect Concentration			
OEL	Occupational Exposure Limit			



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Abbreviations and acronyms			
PBT	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
SDS	Safety Data Sheet		
vPvB	Very Persistent and Very Bioaccumulative		
WGK	Water Hazard Class		
BCF	Bioconcentration factor		
BOD	Biochemical oxygen demand (BOD)		
COD	Chemical oxygen demand (COD)		
IARC	International Agency for Research on Cancer		
OECD	Organisation for Economic Co-operation and Development		
STP	Sewage treatment plant		
ThOD	Theoretical oxygen demand (ThOD)		
TLM	Median Tolerance Limit		
VOC	Volatile Organic Compounds		
N.O.S.	Not Otherwise Specified		

Data sources

 ECHA (European Chemicals Agency). Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.

Full text of H- and EUH-statements		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	

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 (SDS), Turkey

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.