

#### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Revision date: 09/02/2023 Version: 8.0 Issue date: 17/06/2016

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

#### 1.1. Product identifier

Product form : Mixture

Product name **TUBALL MATRIX 603** 

Type of product Nanoform embedded in a matrix

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

#### 1.2.1. Relevant identified uses

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

#### 1.2.2. Uses advised against

No additional information available

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

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

europe@ocsial.com

#### 1.4. Emergency telephone number

**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**

#### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2 H319

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H319 - Causes serious eye irritation.

Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling.

P280 - Wear eye protection, protective clothing, protective gloves.

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

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

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

#### 2.3. Other hazards ▶

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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

#### 3.1. Substances

Not applicable

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#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), solvent refined heavy paraffinic	(CAS-No.) 64741-88-4 (EC-No.) 265-090-8 (EC Index-No.) 649-454-00-7 (REACH-No.) 01-2119488706-23	90	Not classified– <b>Note L</b>
Single wall carbon nanotubes*	(CAS-No.) Not assidned for EU-REACH (EC-No.) 231-153-3 (REACH-No.) 01-2120130006-75-0000	10	Eye Irrit. 2, H319

*Single wall carbon nanotubes TUBALL <sup>TM</sup>			
Name of (set of) nanoform(s)		Tuball <sup>™</sup> - grades 1RW02 / 1RW03 are part of one set of nanoform	
Value		-	
Number based particle size d10 distribution		1.2 - 1.45 nm	
	d50	1.6 - 1.8 nm	
	d90	1.9 - 2.2 nm	
Shape and aspect ratio of particles		Elongated tubes; length to diameter ratio 2000 – 10000:1	
Crystallinity		Amorphous	
Surface functionalisation / treatment		No	
Process		Chemical vapor deposition (CVD)	
Specific surface area		300 – 1500 m²/g	
Additional information		G/D range ≥ 40 (RAMAN at 532 nm)	

Note L: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ('Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method' Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

Full text of H- and EUH-statements: see section 16

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

#### 4.1. Description of first aid measures

First-aid measures after inhalation
First-aid measures after skin contact

- : Remove person to fresh air and keep comfortable for breathing. Get medical attention.
- : Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Wash with plenty of soap and 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

: Rinse mouth out with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

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

Symptoms/effects after inhalation

- : May cause respiratory irritation. Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination.
- Symptoms/effects after skin contact
- : Prolonged or repeated contact may cause skin to become dry. Contact during a long period may cause light irritation.

Symptoms/effects after eye contact Symptoms/effects after ingestion : Causes serious eye irritation.: Ingestion may cause nausea and vomiting. Diarrhea. Gastrointestinal complaints.

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

Treat symptomatically.

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<sup>\*</sup> Single wall carbon nanotubes TUBALL™

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### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : For large fire: Foam. Water fog. For small fire: Dry chemical. Carbon dioxide (CO2).

Sand/earth. ABC-powder.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : Vapours may form explosive mixture with air. Gas/vapour heavier than air. May accumulate

in confined spaces, particularly at or below ground level. Flash back over considerable

distance

Hazardous decomposition products in case of fire : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other

toxic gases.

#### 5.3. Advice for firefighters

Firefighting instructions : Prevent fire fighting water from entering the environment.

Protection during firefighting : Full face mask. Positive pressure self-contained breathing apparatus (SCBA).

#### **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 : Ensure adequate ventilation. Evacuate area. Avoid contact with skin and eyes. Avoid

inhalation of vapours. Do not touch or walk on the spilled product. No open flames, no

sparks, and no smoking.

#### 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye/face protection. In case of fire: Positive

pressure self-contained breathing apparatus (SCBA).

Emergency procedures : Evacuate unnecessary personnel. Provide adequate ventilation. Avoid contact with skin and

eyes. Avoid inhalation of vapours. Collect spillage.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Collect contaminated extinguishing water separately and must not enter the sewage system.

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

For containment : Clean spills promptly. Ventilate affected area. Stop leak if safe to do so.

Methods for cleaning up : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

Use non-sparking tools.

#### 6.4. Reference to other sections ▶

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

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

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin, eyes and clothing. Carry out operations in the open/under local

exhaust/ventilation or with respiratory protection. Avoid breathing dust, fume. To prevent thermal burns avoid contact with hot product. Take precautionary measures against static

discharge. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before

reuse. Regular cleaning of equipment, work area and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Gloves must be periodically inspected and changed in case of wear,

perforations or contaminations.

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

Storage conditions : Store in dry, well-ventilated area. Store at ambient temperature. Keep container tightly

closed. Protect from sunlight.

Incompatible products : Strong oxidizing agents. Strong acids. Halogens.

Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition. No smoking.

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

Special rules on packaging : Keep container tightly closed.

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### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Distillates (petroleum), solvent refined heavy paraffinic			
Bulgaria - Occupational Exposure Limits			
OEL TWA	5 mg/m³		
Czech Republic - Occupational Exposure Limits			
PEL (OEL TWA)	5 mg/m³		
NPK-P (OEL C)	10 mg/m³		
Denmark - Occupational Exposure Limits			
OEL TWA [1]	1 mg/m³		
Finland - Occupational Exposure Limits			
HTP (OEL TWA) [1]	5 mg/m³		
Greece - Occupational Exposure Limits			
OEL TWA	5 mg/m³		
Hungary - Occupational Exposure Limits			
AK (OEL TWA)	5 mg/m³		
Netherlands - Occupational Exposure Limits			
TGG-8u (OEL TWA)	5 mg/m³		
Portugal - Occupational Exposure Limits			
OEL TWA	5 mg/m³		
Romania - Occupational Exposure Limits			
OEL TWA	5 mg/m³		
OEL STEL	10 mg/m³		
Slovakia - Occupational Exposure Limits			
NPHV (OEL TWA) [1]	1 mg/m³		
NPHV (OEL TWA) [2]	5 ppm		
NPHV (OEL STEL)	3 mg/m³		
NPHV (OEL STEL) [ppm]	15 ppm		
Spain - Occupational Exposure Limits			
VLA-ED (OEL TWA) [1]	5 mg/m³		
VLA-EC (OEL STEL)	10 mg/m³		
Sweden - Occupational Exposure Limits			
NGV (OEL TWA)	1 mg/m³		
KTV (OEL STEL)	3 mg/m³		
Norway - Occupational Exposure Limits			
Grenseverdi (OEL TWA) [1]	1 mg/m³		

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)	
DNEL/DMEL (General population)		
Acute - systemic effects, dermal No hazard identified		

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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 ▶

#### Personal protective equipment:

Safety glasses. Gloves. Protective clothing.

#### Hand protection:

Chemically resistant protective gloves

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves,	Nitrile rubber (NBR)		≥ 0.11		EN 374
Reusable gloves					

#### Eye protection:

Chemical goggles or safety glasses. Standard EN 166 - Personal eye-protection.

#### Skin and body protection:

Protective clothing (with elasticated cuffs and closed neck). EN 14605. antistatic boots

#### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection. Wear a respirator conforming to EN140 with Type A/P2 filter or better

### Personal protective equipment symbol(s):







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

#### 9.1. Information on basic physical and chemical properties ▶

Physical state : Solid

Appearance : Viscous. Paste. Colour : Black.

Odour : Slight.
Odour threshold : No data available

pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
: No data available

Melting point : -60 – 0 (Distillates (petroleum), solvent refined heavy paraffinic)

Freezing point : No data available

Boiling point : 200 – 800 °C (Distillates (petroleum), solvent refined heavy paraffinic)

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Flash point : > 98 °C (Distillates (petroleum), solvent-refined heavy paraffinic)

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability : No data available

No data available

Vapour pressure : < 0.1 hPa at 20 °C (Distillates (petroleum), solvent refined heavy paraffinic)

Relative vapour density at 20°C : No data available Relative density : No data available

Density : 0.81 – 0.97 g/cm³ (Distillates (petroleum), solvent refined heavy paraffinic)

Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available

Viscosity, kinematic : 447 mm²/s (Distillates (petroleum), solvent refined heavy paraffinic)

Viscosity, dynamic : No data available
Explosive properties : Not explosive.
Oxidising properties : Non oxidizing.
Explosive limits : No data available

#### Single wall carbon nanotubes

Particle size Not available
Particle size distribution Not available
Particle shape Not available
Particle aspect ratio Not available

Particle aggregation state Bundles of nanotubes

Particle agglomeration state Single wall carbon nanotubes are embedded in a matrix

Particle specific surface area Not available

Particle dustiness 1660 mg/kg (DIRM - Single wall carbon nanotubes)

#### 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Stable under normal conditions.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

None under normal use.

#### 10.4. Conditions to avoid

Take precautionary measures against static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Halogens.

#### 10.6. Hazardous decomposition products

Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

#### **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.

Distillates (petroleum), solvent refined heavy paraffinic	
LD50 oral rat > 5000 mg/l (OECD 401)	
LD50 dermal rabbit	> 2000 mg/kg (OECD 402)
LC50 Inhalation - Rat	> 5000 mg/m³ (OECD 403)

Skin corrosion/irritation : Not classified.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified.

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Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Additional information : Distillates (petroleum), solvent-refined heavy paraffinic (CAS n. 64741-88-4): Classified

based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note

L)

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 42			
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) - OECI			

STOT-single exposure : Not classified STOT-repeated exposure : Not classified

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

Hazardous to the aquatic environment, short-term : Not classified.

(acute)

Hazardous to the aquatic environment, long-term : Not classified.

(chronic)

#### 12.2. Persistence and degradability

Distillates (petroleum), solvent refined heavy paraffinic		
Biodegradation	31 % - 28 days - OECD 301B-301F	

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

Component	
Single wall carbon nanotubes	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

#### 12.6. 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.

Waste treatment methods : Disposal through controlled incineration or authorised waste dump.

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

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14.2. UN proper shipping name						
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated		
14.3. Transport hazard o	class(es)					
Not regulated	Not regulated Not regulated Not regulated Not regulated Not regulated					
14.4. Packing group						
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated		
14.5. Environmental hazards						
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated		
No supplementary information available						

#### 14.6. Special precautions for user

#### **Overland transport**

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

Listed on REACH Annex XVII (Restriction Conditions). The following restrictions are applicable:		
Reference code	Applicable on	Entry title or description
3(b)	TUBALL MATRIX 603	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Other information, restriction and prohibition regulations

: EN 16143:2013 Petroleum products - Determination of content of Benzo(a)pyrene (BaP) and selected polycyclic aromatic hydrocarbons (PAH) in extender oils according to Annex

XVII to the REACH Regulation (EC) No 1907/2006, entry 50:

Benzo[a]pyrene (BaP): < 1mg/kg

8 PAH (Polycyclic aromatic hydrocarbons): <10 mg/kg.

#### 15.1.2. National regulations ▶

#### Germany

Observe restrictions according Act on the Protection of Working Mothers (MuSchG) Employment restrictions

Observe restrictions according Act on the Protection of Young People in Employment

(JArbSchG)

Water hazard class (WGK) Hazardous Incident Ordinance (12. BImSchV)

WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

### Netherlands

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

Distillates (petroleum), solvent refined heavy paraffinic is listed Distillates (petroleum), solvent refined heavy paraffinic is listed

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SZW-lijst van reprotoxische stoffen – Borstvoeding

: None of the components are listed SZW-lijst van reprotoxische stoffen -: None of the components are listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen - Ontwikkeling : None of the components are listed

**Denmark** 

: Emergency management guidelines for the storage of flammable liquids must be followed Classification remarks

**Danish National Regulations** Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with

the product

**Switzerland** 

: LK 11/13 - Solids Storage class (LK)

#### 15.2. Chemical safety assessment ▶

For the following substances of this mixture a chemical safety assessment has been carried out

Single wall carbon nanotubes

#### **SECTION 16: Other information**

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	
MDG	International Maritime Dangerous Goods	
_C50	Median lethal concentration	
_D50	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	
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	
Full text of H- and EUH	-statements:	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	

# 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.

SDS EU (REACH Annex II) OCSiAI

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