

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 29/03/2017 Revision date: 10/01/2022 Version: 9.1

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

1.1. Product identifier

Product form : Mixture

Product name : TUBALL MATRIX 302

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: USA: China: India: OCSiAl Europe S.a.r.l. OCSIAI LLC OCSiAl Asia Pacific Co., Ltd. OCSiAl Hong Kong Limited VIMAL INTERTRADE PVT LTD. Shivam Centrum, L-3364, Leudelange, 500 S Front St., Office 208, Pilot Plant Bldg., No. 1102, 11/F, Lippo Sun Sahar Road, Koldongri, 1, rue de la Poudrerie, Suite 860, Columbus, Incheon Technopark Plaza, 28 Canton Road, Above Nexa Showroom. Grand Duchy of OH 43215, USA 12 Gaetbeol-ro, Yeonsu-gu, Tsim Sha Tsui, Kowloon, Andheri East, Luxembourg Incheon, 406-840 Hong Kong Mumbai - 400 069 Republic of Korea T +352 27 99 03 73 T+14159065271 T +82 32 260 0407 T +852 3575 3946 T +91 22 6288 4200 09.00-17.00 GMT+2 09.00-17.00 GMT-4 09.00-17.00 GMT+9 09:00-17:00; GMT+8 09:00-17:00; GMT+5.5 europe@ocsial.com usa@ocsial.com asiapacific@ocsial.com china@ocsial.com india@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

Causes serious eye irritation.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

· Warning

Signal word (CLP)

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

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

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

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

No additional information available

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]
Alkylene glycol derivative	Trade Secret	70	Not classified
Disodium 2,2'-([1,1'-biphenyl]- 4,4'diyldivinylene)bis(benzenesulphonate)	(CAS-No.) 27344-41-8 (EC-No.) 248-421-0 (REACH-No.) 01-2119533064-49	20	Eye Irrit. 2, H319
Single wall carbon nanotubes*	(CAS-No.) Not assigned for EU-REACH (EC-No.) 943-098-8 (REACH-No.) 01-2120130006-75-0000	10	Eye Irrit. 2, H319

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

*Single wall carbon nanotubes TUBALL™		
Name of (set of) nanoform(s)	Tuball [™] - grades 1RW02 / 1RW03 are part of one set of nanoform	
Value	-	
Number based particle size distribution d10	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)	

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. 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.

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

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

First-aid measures after ingestion : Rinse mouth out with water. Do not induce vomiting. Get medical attention.

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

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : May cause moderate irritation, including burning sensation, tearing, redness or swelling.

Symptoms/effects after eye contact : Eye irritation.

Symptoms/effects after ingestion : Gastrointestinal complaints. Diarrhea.

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 : Powder, Alcohol-resistant foam, Water spray, Carbon dioxide (CO2).

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

5.2. Special hazards arising from the substance or mixture

Fire hazard : Under fire conditions, hazardous fumes will be present.

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

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5.3. Advice for firefighters

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.

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 : Provide adequate ventilation. Evacuate area. Avoid inhalation of vapours.

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 : Clear up rapidly by scoop or vacuum. Collect in closed container and remove to a safe

place for disposal by burning.

6.4. Reference to other sections

No additional information available

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.

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

reuse.

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.

Storage temperature : -40 / +40 °C

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).

Special rules on packaging : Keep container tightly closed.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Alkylene glycol derivative		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	474 mg/m³	
IOEL TWA [ppm]	150 ppm	
Croatia - Occupational Exposure Limits		
GVI (OEL TWA) [1]	474 mg/m³ ukupno pare i čestice	
	10 mg/m³ samo čestice	
GVI (OEL TWA) [2]	150 ppm ukupno pare i čestice	
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 91/2018)	

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Alkylene glycol derivative		
Ireland - Occupational Exposure Limits		
OEL TWA [1]	470 mg/m³ total (vapour and particulates) 10 mg/m³ particulates	
OEL TWA [2]	150 ppm total (vapour and particulates)	
Regulatory reference	Chemical Agents Code of Practice 2020	
Latvia - Occupational Exposure Limits		
OEL TWA	7 mg/m³	
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	7 mg/m³	
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	100 mg/m³ pary i frakcja wdychalna	
Regulatory reference	Dz. U. 2018 poz. 1286	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	10 mg/m³ particulates 474 mg/m³ total vapour and particulates	
WEL TWA (OEL TWA) [2]	150 ppm total vapour and particulates	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA) [1]	79 mg/m³	
Grenseverdi (OEL TWA) [2]	25 ppm	
Regulatory reference	FOR-2020-04-06-695	

Alkylene glycol derivative		
DNEL/DMEL (Workers)		
Long-term - systemic effects, inhalation	168 mg/m³	
Long-term - local effects, inhalation	10 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects, inhalation	50 mg/m³	
Long-term - local effects, inhalation	10 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	260 mg/l	
PNEC aqua (marine water)	26 mg/l	
PNEC aqua (intermittent, freshwater)	183 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	572 mg/kg dwt	
PNEC sediment (marine water)	57.2 mg/kg dwt	
PNEC (Soil)	PNEC (Soil)	
PNEC soil	50 mg/kg dwt	
PNEC (Oral)		
PNEC oral (secondary poisoning)	1133 mg/kg	
PNEC (STP)		
PNEC sewage treatment plant	20000 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

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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 - systemic effects, inhalation	10 mg/m³
Long-term - local effects, inhalation	Low hazard (no threshold identified)
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,oral	859 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2.5 mg/m³
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:

Gloves. Protective clothing. Safety glasses.

Hand protection:

Wear suitable gloves

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves,	Use neoprene or		> 0.18		EN 374
Reusable gloves	rubber gloves				

Eye protection:

Chemical goggles or safety glasses. EN 166

Skin and body protection:

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

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Selection of respiratory protection must be based on the result of the risk assessment

Personal protective equipment symbol(s):







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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Flakes. Pasty.

Colour : Black. White inclusions permissible.

Odour Odourless. Odour threshold No data available рΗ : No data available Relative evaporation rate (butylacetate=1) : No data available : No data available Melting point Freezing point : Not applicable Boiling point : No data available Flash point : Not applicable Auto-ignition temperature : Not applicable Decomposition temperature : No data available Flammability (solid, gas) : No data available : No data available Vapour pressure Relative vapour density at 20 °C : No data available Relative density : No data available : 1.056 g/ml

Density : 1.056 g/ml
Solubility : No data available
Partition coefficient n-octanol/water (Log Pow) : No data available
Viscosity, kinematic : Not applicable
Viscosity, dynamic : No data available
Explosive properties : Not explosive.
Oxidising properties : Non oxidizing.
Explosive limits : Not applicable

Single wall carbon nanotubes

Particle sizeSee section 3.2Particle size distributionSee section 3.2Particle shapeSee section 3.2Particle aspect ratioSee section 3.2Particle aggregation stateBundles of nanotubes

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

Particle specific surface area See section 3.2

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 known.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong oxidizing agents. Strong bases. Strong acids. Isocyanates.

10.6. Hazardous decomposition products

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

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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

Alkylene glycol derivative		
LD50 oral rat	22500 mg/kg	
LD50 dermal rabbit	20800 mg/kg	
Disodium 2,2'-([1,1'-biphenyl]-4,4'diyldivinylene)bis(benzenesulphonate) (27344-41-8)		
LD50 oral rat > 2000 mg/kg - OECD 401		
LD50 dermal rat	> 2000 mg/kg - OECD 402	

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not available
Carcinogenicity : Not available
Reproductive toxicity : Not available

Single wall carbon nanotubes (7440-44-0)	
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 : Not available STOT-repeated exposure : Not available

Aspiration hazard : Not available

TUBALL MATRIX 302	
Viscosity, kinematic	Not applicable

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)

Alkylene glycol derivative		
LC50 fish - 96h	40613 mg/l Oncorhynchus mykiss (Rainbow trout)	
EC50 crustacea - 48h	18340 mg/l Ceriodaphnia dubia	
EC50 algae - 96h	19000 mg/l Pseudokirchneriella subcapitata	
NOEC chronic crustacea - 21 days	13020 mg/l Ceriodaphnia dubia - 7 days	
Disodium 2,2'-([1,1'-biphenyl]-4,4'diyldivinylene)bis(benzenesulphonate) (27344-41-8)		
LC50 fish - 96h	10 – 100 mg/l Brachydanio rerio (zebra-fish) - OECD 203 - ISO 7346; 84/499/EEC, C.1	
EC50 algae - 72h	10 – 100 mg/l (Growth rate) Scenedesmus subspicatus - OECD 201	
NOEC (chronic)	> 1 mg/l (Growth rate) Scenedesmus subspicatus - OECD 201	
NOEC chronic crustacea - 21 days	> 1 mg/l Daphnia magna (Water flea) - OECD 211	

12.2. Persistence and degradability

Alkylene glycol derivative		
Persistence and degradability	Readily biodegradable.	
Disodium 2,2'-([1,1'-biphenyl]-4,4'diyldivinylene)bis(benzenesulphonate) (27344-41-8)		
Persistence and degradability	Readily biodegradable.	
Biochemical oxygen demand (BOD)	0 mg O ₂ /g substance - 5 days	
Chemical oxygen demand (COD)	1.507 mg O ₂ /g substance	
Biodegradation	> 70 % - OECD 301F	

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12.3. Bioaccumulative potential

Alkylene glycol derivative		
Bioconcentration factor (BCF REACH) 0.09		
Partition coefficient n-octanol/water (Log Pow)	-1.07	
Disodium 2,2'-([1,1'-biphenyl]-4,4'diyldivinylene)bis(benzenesulphonate) (27344-41-8)		
Partition coefficient n-octanol/water (Log Pow) -2.32 - OECD 107		

12.4. Mobility in soil

Alkylene glycol derivative	
Surface tension	71.6 mN/m

12.5. Results of PBT and vPvB assessment

Component	
Alkylene glycol derivative	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
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

Waste treatment methods

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

: 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

III 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
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
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

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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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

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

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

(JArbSchG)

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

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

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

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed

giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed

giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed giftige stoffen – Ontwikkeling

Switzerland

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

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

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	
DIRM	Mass-based Dustiness Index	
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	

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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 EUF	I-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)

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