



TUBALL™

REGULATORY INFORMATION SHEET

Edition dated April 2022, valid until May 2023, valid for substance produced in Novosibirsk only. TUBALL™ – a trade name of single wall carbon nanotubes produced by OCSiAl.

OCSiAl trade name TUBALL™ (Hereinafter also 'Substance')
Set of nanoform (grade 1RW02/1RW03)

Chemical name CAS No. Single wall carbon nanotubes (SWCNT)
Not relevant for Europe

7440-44-0 China and Japan
7782-42-5 South Korea

EC No. 943-098-9
REACH registration Registered by OCSiAl Europe S.à.r.l.
01-2120130006-75-000

Chemical inventory status

The USA	TSCA	Listed (SNUR §40 CFR 721.11179)
Canada	DSL	100 kg/y allowed; NSN schedule IV ongoing
New Zealand	NZIoC	No
EU	REACH	Listed (A.VIII <100 MT/y) – n° 01-2120130006-75-000
South Korea	K-REACH	Pre-registered KE-18101 (existing substance)
China	IECSC	Similar as a listed existing substance
Taiwan	TCSI	Not applicable yet, < 100 kg/y
Turkey	KKDIK	Pre-registered – no. 05-0000186875-25-0000
Philippines	PICCS	No
Australia	AICIS	Application ID: LTD/2154; ≤ 1 MT/y (Assessment certificate issued on 18 th Nov. 2021)
Japan	ENCS/ISHL	Similar as a listed existing substance

SVHC

For a statement on "Candidate List" substances according to article 59 of the REACH regulation, please request an up-to-date version of our SVHC declaration for this substance.

REACH dossier

See link	https://echa.europa.eu/fr/registration-dossier/-/registered-dossier/18023
Physical and chemical properties	https://echa.europa.eu/fr/registration-dossier/-/registered-dossier/18023/9
Ecotoxicological information	https://echa.europa.eu/fr/registration-dossier/-/registered-dossier/18023/6/1
Toxicological information	https://echa.europa.eu/fr/registration-dossier/-/registered-dossier/18023/7/2/1
Guidance on safe use	<p>REACH dossier</p> <p>https://echa.europa.eu/fr/registration-dossier/-/registered-dossier/18023/9</p> <p>Safe Handling and Use of TUBALL™</p> <p>https://tuball.com/media/filer_public/2b/c9/2bc9afd0-9c4e-4cf5-ab9d-86b6b2de703f/200521_sh_tuball_guide.pdf</p> <p>This guideline identifies good practices for handling TUBALL™ and also specifies containing products to minimise worker exposure and environmental risk.</p> <p>For specific end uses see the exposure scenarios of the relevant EU safety data sheets.</p>
Food contact regulation	<p>This substance has not been subjected to any FCM compliance dossier:</p> <p>It has not been assessed for conformance to any FDA regulations and neither has it been evaluated under EU No. 10/2011.</p> <p>The participation of an article producer would be necessary.</p>
California Proposition 65	<p>TUBALL™ does not contain any substances known to the state of California to cause cancer or developmental and/or reproductive harm.</p>
Compliance with Directive 2011/65/EU (RoHS requirements)	<p>According to the definition and restrictions given by the European Parliament, Directive 2011/65/EC and subsequent amendments, on the restriction of the use of certain hazardous substances in electrical and electronic equipment, with respect to the manufacturing process and the raw materials used, we can say that the substances listed below are not intended to be present in the production of this substance:</p> <ul style="list-style-type: none">• lead (Pb)• mercury (Hg)• cadmium (Cd)• hexavalent chromium (Cr⁺⁶)• polybrominated biphenyls (PBBs)• polybrominated diphenyl ethers (PBDEs) <p>The following substance are neither present in the raw materials nor intentionally added to the production process of this substance or added to it otherwise:</p> <ul style="list-style-type: none">• bis(2-ethylhexyl) phthalate (DEHP)• benzyl butyl phthalate (BBP)• dibutyl phthalate (DBP)• diisobutyl phthalate (DIBP)

Persistent Organic Pollutants, POP: as listed in the regulation 2019/1021 Annex I and the Stockholm Convention

None of the 10 substances listed above are intentionally added or formulated in this mixture. Therefore, by using this substance it is possible to comply with the requirements of Regulations (EC) No. 2019/1021.

Compliance with EU legislation Regulation (EC) No. 1907/2006, Annex XVII

We can declare and certify to our knowledge that **none of the PAHs** (polycyclic aromatic hydrocarbons) currently listed in the REACH ANNEX XVII list, namely:

- benzo[def]chrysene (CAS 50-32-8)
- dibenz[a,h]anthracene (CAS 53-70-3)
- benz[a]anthracene (CAS 56-55-3)
- chrysene (CAS 218-01-9)
- benzo[j]fluoranthene (CAS 205-82-3)
- benzo[e]acephenanthrylene (CAS 205-99-2)
- benzo[k]fluoranthene (CAS 207-08-9)
- benzo[e]pyrene (CAS 192-97-2)

are intentionally added during the production processes of our substance.

OCSiAl Europe S.à.r.l. does not routinely analyze for the presence of these substances.

Analysis of chemical elements

In chemical analysis of the substance, all of the following elements are below the detection limits or not used or not intentionally added:

Cadmium (Cd)	< 2 mg/kg
Chromium (Cr)	< 350 mg/kg*
Nickel (Ni)	< 350 mg/kg*
Lead (Pb)	< 2 mg/kg*
Magnesium (Mg)	< 10 mg/kg
Manganese (Mn)	< 350 mg/kg
Mercury (Hg)	< 2 mg/kg*
Selenium (Se)	< 2 mg/kg*
Silver (Ag)	< 20 mg/kg*
Zinc (Zn)	< 20 mg/kg*
3TG (tin, tungsten, tantalum or gold)	Not used
Arsenic (As)	Not used
Antimony (Sb)	Not used
Cobalt (Co)	Not used

* In the chemical analysis of our substance (method used: semi-quantitative ICP-MS scans or ICP-AES), this element was below the detection limit.

Benzene, toluene, styrene, phenol, bisphenols, BHT, formaldehyde, asbestos

This substance does not contain any intentionally added benzene, toluene, styrene, phenol, bisphenols, BHT, formaldehyde or asbestos.

Conflict minerals

This substance does not contain any conflict minerals.

Document control

Effective date of change

17 March 2021
26 April 2021
29 April 2022

Description of change

Created
Updated inventory AICIS
New update Chemical inventory status
/ update analysis chemical elements

Change reviewed and approved by

Van Kerckhove G.
Van Kerckhove G.
Van Kerckhove G.



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EHS lead manager

(Electronically signed, valid without signature)

April 2022

Disclaimer

All data contained in this Regulatory Information Sheet is intended as a general description of our substance and is based on OCSiAl's current knowledge and experience believed by OCSiAl to be reliable at the date of publication of this Regulatory Information Sheet. OCSiAl makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency, or freedom from defect and assumes no liability in connection with any use of and/or reliance on this information. Any user of this substance is responsible for determining the suitability of OCSiAl's substance for its particular application.