



TUBALL BATT H₂O

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 14/12/2016

Revision date: 16/05/2018

Version: 1.2

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

1.1. Product identifier

Product form : Mixture
Trade name : TUBALL BATT H₂O 0.2 %

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 : The modifier used for producing lithium-ion batteries, composites, and other materials

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Europe:	USA:	Asia:	China:	India:
OCSiAl Europe S.a.r.l. L-3364, Leudelange, 1, rue de la Poudrerie, Grand Duchy of Luxembourg T +352 27 99 03 73 europe@ocsial.com	OCSiAl LLC 500 S Front St., Suite 860, Columbus, OH 43215, USA T +1 415 906 5271 usa@ocsial.com	OCSiAl Asia Pacific Co., Ltd. Office 208, Pilot Plant Bldg., Incheon Technopark 12 Gaetbeol-ro, Yeonsu-gu, Incheon, 406-840 Republic of Korea T +82 32 260 0407 asiapacific@ocsial.com	OCSiAl Hong Kong Limited Unit 914, 9/F, Miramar Tower, 132 Nathan Road, Tsim Sha Tsui, Kowloon, Hong Kong T +852 3180 9317 china@ocsial.com	OCSiAl PRIVATE LIMITED A504 Universal Business Park, Ansa Industrial Estate, Chandivali, Andheri (E) Mumbai 400072 T +91 22 4120 8615 india@ocsial.com

1.4. Emergency telephone number

Europe:	USA:	Asia:	China :	India:
+352 27 99 03 73 09.00-17.00 GMT+2	+1 415 906 5271 09.00-17.00 GMT-4	+82 32 260 0407 09.00-17.00 GMT+9	+852 3180 9317 09.00-17.00 GMT+8	+91 22 4120 8615 09.00-17.00 GMT+5.5

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

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) : Not classified
Signal word (CLP) : Not classified
Precautionary statements (CLP) : Not classified

2.3. Other hazards

PBT: not yet assessed
vPvB: not yet assessed

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS No) 7732-18-5	>99,0	Not classified
Carboxymethyl cellulose	(CAS No) 9004-32-4	0,3	Not classified
Single wall carbon nanotubes	(EC no) 943-098-9 (REACH-no) 01-2120130006-75	0,2	Eye Irrit. 2, H319

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SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after skin contact : Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. If irritation persists, obtain medical advice.

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Not applicable
- Unsuitable extinguishing media : Not applicable

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Not applicable
- Explosion hazard : Not applicable
- Hazardous decomposition products in case of fire : Not applicable

5.3. Advice for firefighters

- Protective equipment for firefighters : No special fire safety measures required

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 : Avoid contact with skin, eyes and clothes. Ensure adequate ventilation. Evacuate area.

6.1.2. For emergency responders

- Protective equipment : Wear suitable protective clothing, gloves and eye/face protection.
- Emergency procedures : Provide adequate ventilation. Evacuate area. Avoid contact with skin and eyes.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6.3. Methods and material for containment and cleaning up

- For containment : Clean spills promptly. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Ventilate affected area. Stop leak if safe to do so.
- Methods for cleaning up : Collect in closed containers for disposal. Absorb remaining liquid with sand or inert absorbent and remove to safe place. Clean spills promptly.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : None known
- Precautions for safe handling : Avoid contact with skin, eyes and clothes
- 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 duration : 12 months.
- Storage conditions : Keep container tightly closed at temperature above +5 °C

7.3. Specific end use(s)

After 6 months storage, pre-mixing is recommended using a high-speed mixer at 0.1-0.2 kWh per 1 kg of dispersion

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment : Gloves. Protective clothing.



- Hand protection : Wear suitable gloves tested to EN 374
Suitable material: nitrile rubber (NBR > 0,35 mm)
Unsuitable material: neoprene or latex
After inspection in case of tears, gloves should be replaced
- Skin and body protection : Safety glasses with side-shields should be conform to EN 166
Protective clothing should be conform to EN 14605
Protective clothing: clothing with wrist covers or cuffs
Protective shoes: S1P or S3. Disposable over-the-shoe booties may be used

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Colour : Black
- Odour : Odourless
- Odour threshold : No data available
- pH : No data available
- Relative evaporation rate (butyl acetate=1) : No data available
- Melting point : 0 °C
- Boiling point : 100 °C
- Flash point : No data available
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : No data available
- Relative vapour density at 20 °C : No data available ►
- Density : 1.001 g/cm³
- Log Pow : No data available
- Explosive properties : No data available
- Oxidising properties : No data available
- Explosive limits : No data 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

None known

10.5. Incompatible materials

Strong oxidizing agents, strong acids.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

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

No additional information available

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 to hazardous or special waste collection point.
Sewage disposal recommendations	: Prevent entry to sewers and public waters.

SECTION 14: Transport information

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

14.1. UN number

No dangerous good in sense of transport regulations

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	No
Other information	: No supplementary information available

14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.6.4. Inland waterway transport

No additional information available

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

Not applicable

14.8. Other information

Transportation temperature not lower than +5 °C

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

CSA has not been established

SECTION 16: Other information

Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H319	Causes serious eye irritation

List of Abbreviations:

ADN	The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, Labeling, Packaging
CSA	Chemical Safety Assessment
IATA	International Air Transport Association
IMDG	International Maritime Code for Dangerous Goods
PBT	A substance that is persistent, bioaccumulative and toxic
RID	Regulation Concerning the International Transport of Dangerous Goods by Rail
vPvB	A substance that is very persistent and very bioaccumulative

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 the mentioned precautionary measures and to ensure that this information is complete and sufficient for the use of this product.

SDS EU (REACH Annex II)

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