

BATTERY SAFETY DATA SHEET

SECTION 1 - CHEMICAL AND COMPANY IDENTIFICATION

Product Name:	Intrinsically Safe Pr	rimary Lithium Battery	Pack Date Prepare	d: February 2024
Turno/Mardali	Type/Model	Nominal voltage	Rated capacity	Lithium content
Type/Model:	CLB850FF	7.5V	3400mAh	4.5g
Parameter	7.5V, 3400mAh, 25	5.5Wh		
Hears	□ Used in Portable Equipment □ Used in Electric Vehicle		Vehicle	
Usage	☐ Used in Energy	Storage System	☐ Others	
Manufacturer's	Entel UK Limited			
Name:				
Address:	320 Centennial Avenue, Centennial Park, Elstree, Borehamwood, Herts ,WD6 3TJ			
Telephone Number:	+44 (0)20 8236 0032			
E-Mail:	technical@entel.co.uk			
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Emergency Contact Number:	+44 (0)20 8236 0032			
Document Number:	QAS-SDS-019			

SECTION 2 – HAZARD IDENTIFICATION

Classification:

This chemical is not considered hazardous by the Regulation (EC) No 1272/2008 (CLP). This product is an article that is a sealed battery and as such does not require an SDS per regulation (EC) No 1272/2008 (CLP) unless ruptured. The hazards indicated are for ruptured batteries.

Acute toxicity – Oral	Category 4
Acute toxicity – Dermal	Category 4
Skin corrosion/irritation	Category 1B
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1

Label elements:

Signal Word: Danger

Hazard Statements

H302	Harmful if swallowed.	
H313	Harmful in contact with skin.	
H332	Harmful if inhaled.	
H318	Causes serious eye damage.	
H317	May cause allergic skin reaction.	
H350	May cause cancer.	
H371	May cause damage to organs.	
H355	May cause respiratory irritation.	

Symbol





GHS05



GHS07

This product is an article that contains a chemical substance. Safety information is given for exposure to the article as solid. The intended use of the product should not result in exposure to the chemical substance, this is a battery. In case of rupture: the above hazards exist.

Precautionary Statement - Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P281	Use personal protective equipment as required.
P264	Wash face, hands and any exposed skin thoroughly after handling.
P272	Contamination work clothing should not allowed out of the workplace.
P210	Keep away from heat/sparks/open flames/hot surfaces-no smoking.
P270	Do not eat, drink or smoke when using this product.

Precaution Statements - Response

P301 + P330 + P308

If exposed or connected: Get medical advice/attention. Specific treatment (see supplemental first aid/instruction on this label)

Skin: If on the skin: wash with plenty of soap and water. Take off contaminated clothing and water before reuse, if skin irritation or rash occurs: get medical advice/attention if feel unwell.

Eye: If in eyes: Rinse cautiously with water for several minutes, and remove contact lenses, if present and easy to do, continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell.

Inhalation: If inhalation: if breathing is difficult, remove the victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician if you feel unwell. Ingestion: If swallowed: rinse mouth, do not induce vomiting, and call a POISON CENTER or doctor/physician if you feel unwell.

Precautionary Statements - Storage

P405	Store locked up

Precautionary Statements - Disposal

Ī	P501	Dispose of contents/container to an approved waste disposal plant
	1 00 1	Dioposo di contento, contanto to an approvoa wasto dioposai piant

Hazards not otherwise classified (HNOC)

Not applicable.

Other information

Harmful to aquatic organisms, and may cause long-term adverse effects in the aquatic environment.

Interactions with other chemicals

The use of alcoholic beverages may enhance the toxic effect.

SECTION 3 – COMPOSITION /INFORMATION ON INGREDIENT

Ingredient	Molecular Formula	CAS No.	Weigh
Carbon Black	С	1333-86-4	0-4%
1,2-Dimethoxyethane	C ₄ H ₁₀ O ₂	110-71-4	2-4%
1,3-Dioxolane	C ₃ H ₆ O ₂	646-06-0	5-9%
Graphite	С	7782-42-5	0-4%
Iron Disulfide	FeS ₂	1309-36-0	28-38%
Lithium	Li	7439-93-2	6.3-6.6%
Lithium Iodide	Lil	10377-51-2	0.3-3%
Non-Hazardous Components Steel Iron	FeCrC	65997-19-5	18-22%
Plastic and Others			Balance

SECTION 4 – FIRST AID MEASURES

Eye Exposure:

In case of contact with eyes, flush with copious water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Skin Exposure:

If the internal battery materials of an opened battery cell come into contact with skin, immediately flush with plenty of water or soap.

Inhalation Exposure:

If inhaled the internal battery vomiting. Seeking immediate medical attention.

Ingestion Exposure:

If swallowed, seek medical attention. Do not include vomiting unless directed to do so by medical personnel.

SECTION 5 – FIRE FIGHTING MEASURES

Danger characteristic:

Exposure to excessive heat can cause venting of the liquid electrolyte.

Battery may burst and release hazardous decomposition products when exposed to a fire situation.

Hazardous combustion products

Corrosive and toxic gas may be emitted during a fire.

Fire-Fighting method:

The staff must be equipped with filter mask (full mask) or isolated breathing apparatus.

The staff must wear clothes which can defend the fire in the upwind direction.

Remove the container to the open space as soon as possible.

Spray water on the containers in the fireplace to keep them cool until finished extinguishment.

Fire-fighting media:

Plenty of water, dry chemical powder or carbon dioxide.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Emergency treatment:

If the battery material is released, remove personnel from the area until the batteries cool down and the fumes dissipate. Provide maximum ventilation to clear out hazardous gases and avoid skin and eye contact or inhalation of vapours. Remove spilled liquid with absorbent and incinerate waste.

SECTION 7 - HANDLING AND STORAGE

Handling:

- 1. Do not allow battery terminates to contact each other, or contact with other metals.
- 2. Do not put the cell or battery into fire or heat it. Do not solder the cell directly. Do not use or leave the cell or battery in a place near the fire or heaters.
- 3. Do not expose the battery to excessive physical shock or vibration.
- 4. Do not immerse, throw, and wet a battery in water.
- 5. Short-circuiting should be avoided. A short circuit will reduce the life of the battery and can lead to the ignition of surrounding materials. Physical contact with short-circuited battery can cause skin burns.
- 6. The batteries should not be opened, destroyed or incinerated, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed containers.
- 7. Place the cell beyond the child packing and container.
- 8. Do not connect the battery directly to an electric outlet or cigarette socket in a car.
- 9. Be sure to use the specified charger for battery, and follow the charging instructions correctly.
- 10. Do not mix old and new batteries together, neither with Ni-Cd, dry batteries or another manufacturer's batteries or product.

Storage:

- 1. Batteries should be separated from other materials and stored in a non-combustible, well-ventilated, sprinkler-protected structure with sufficient clearance between walls and battery stacks.
- 2. Keep the sample in a cool, dry and well-ventilated place (temperature: -20~30°C, humidity: 45~85%). Do not exposure to direct sunlight for long periods. Keep away from fire and heating sources. Don't keep the samples with oxidizer and acid.
- 3. Equip with relevant types and quantities of the extinguishment instruments. The storage place should be equipped with suitable shelter materials for divulgence handling.
- 4. For rechargeable battery, charge the battery every 6 months to the amount specified by the manufacturer, even if the battery is not used.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Control:

Keep away from heat and open flame. Supply with sufficient partial air exhaust. Store in a cool, dry place.

Respiratory Protection:

Not necessary under conditions of normal use. Wear a self-contained breathing filter mask if the density exceeds in the air. Wear a breathing apparatus under the condition of emergency rescue or evacuation.

Eyes Protection:

Not necessary under control conditions of normal use. Wear protective glasses if handling a leaking or ruptured battery.

Skin and Body Protection:

Not necessary under conditions of normal use. Wear fireproofing, gas defence clothes in case of handling a leaking or ruptured battery.

Hands Protection:

Not necessary under conditions of normal use. Wear chemical-resistant rubber gloves.

Other Protections:

No smoking, dining and drinking water in the workplace. Keep good habits of hygiene.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Red
Physical state:	Solid
Form:	Nearly Prismatic
Odor:	Odorless
Solubility:	Insoluble in water

SECTION 10 - STABILITY AND REACTIVITY

Stability:

Stable under normal temperature and pressure.

Distribution of Ban:

Explosives, inflammables, strong oxidations and corrosives.

Conditions to Avoid:

Fire source, heating source, disassembly, external short circuit, crushes, deformation, high temperature above 100°C, direct sunlight and high humidity, immerse in water or overcharge.

Hazardous Polymerization:

This will not occur.

Hazardous Decomposition Products:

Metal oxides, carboxyl compounds such as CO, CO₂, etc.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity:

No information is available.

Sub-acute and Chronic Toxicity:

No information is available.

Irritation Data:

The internal battery materials may cause irritation to the eyes and skin.

Sensitization:

The liquid in the battery may cause sensitization in some people.

Mutagenicity:

No information is available.

Carcinogenicity:

No information is available.

Others:

Since the materials in this battery are sealed in the can, the potential for exposure to the components of the battery is negligible, when the battery is used as directed. However technical or electrical abuse of the battery may result in the release of battery contents.

SECTION 12 - ECOLOGICAL INFORMATION

Eco-toxicity:

No information is available.

Biodegradable:

No information is available.

Mobility in soil:

No information is available.

Bio concentration or biological accumulation:

No information is available.

Other harmful effects:

Don't abandon the battery in environment, may cause water or soil pollution.

SECTION 13 – DISPOSAL CONSIDERATIONS

Appropriate Method of Substance:

The battery should be completely discharged before disposal in order to prevent short circuit.

The battery contains recyclable materials, and it is suggested to recycle.

Refer to National or Local regulations before handling.

Disposal of the battery should be performed by permitted, professional disposal firms knowledgeable in National or Local regulations of hazardous waste treatment and hazardous waste transportation.

SECTION 14 – TRANSPORT INFORMATION

The battery has passed the test items of UN Manual of Test and Criteria Section 38.3.

Type/Model	Report No.
CLB850FF	Entel20230724U01

General packaging requirement:

- 1. The cells or batteries must be protected so as to prevent short circuits.
- 2. The cells or batteries or equipment must be packed in suitable strong outer packaging.
- 3. If batteries are contained in equipment, equipment must be secured against movement within the outer packaging and be packed so as to prevent accidental activation.

Air transportation, according to IATA-DGR 65th Edition

UN Number + PSN	UN 3090, Lithium Metal Batteries
Hazard Class	Class 9
Packaging requirement	Packing group II, packaging according to packing instruction 968, section IA
UN Number + PSN	UN 3091, Lithium Metal Batteries Packed with Equipment
Hazard Class	Class 9
Packaging requirement	Packing group II, packaging according to packing instruction 969, section I
UN Number + PSN	Un 3091, Lithium Metal Batteries Contained in Equipment
Hazard Class	Class 9
Packaging requirement	Strong package, packaging according to packing instruction 970, section I

Sea transportation, according to IMO IMDG Code (Amend 41-2022)

UN Number + PSN	UN 3090, Lithium Metal Batteries, or
UN Number + PSN	UN 3091, Lithium Metal Batteries Packed with Equipment
Hazard Class	Class 9
Packaging instruction	Packing group II, Packaging in accordance to corresponding requirements of P903
EmS No.	F-A, S-I
UN Number + PSN	UN 3091, Lithium Metal Batteries Contained in Equipment
Hazard Class	Class 9
Packaging instruction	Strong package, Packaging in accordance to corresponding requirements of P903
EmS No.	F-A. S-I

Road transportation, according to ADR-2023

UN Number + PSN	UN 3090, Lithium Metal Batteries, or
UN Number + PSIN	UN 3091, Lithium Metal Batteries Packed with Equipment
Hazard Class	Class 9
Packaging instruction	Packing group II, Packaging in accordance to corresponding requirements of P903

UN Number + PSN	UN 3091, Lithium Metal Batteries Contained in Equipment
Hazard Class	Class 9
Packing instruction	Strong package, Packing in accordance to corresponding requirements of P903

SECTION 15 - REGULATORY INFORMATION

Dangerous Goods Regulation (DGR)

Recommendations on the Transport of Dangerous Goods Model Regulations

International Maritime Dangerous Goods (IMDG)

Occupational Safety and Health Act (OSHA)

Toxic Substances Control Act (TSCA)

Code of Federal Regulations (CFR)

Technical Instructions for the Safe Transport of Dangerous Goods

California Proposition 65

Superfund Amendments and Reauthorization Act Title III (302/311/312/313) (SARA)

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

In accordance with all Federal, State and local laws.

SECTION 16 – OTHER INFORMATION

Preparation Date:	February 27, 2024						
Prepared by:	Entel Quality Assurance Department						
According standard:	GB/T 16483-2008 SDS for chemical products Content and order of sections						
According standard.	ISO 11014:2009(E) SDS for chemical products Content and order of sections						
	Report No. Entel20230724MSDS01						
Reference:	Report No. Entel20230724U01						
	Guangzhou MCM Certification & Testing Co., Ltd.						
Revision:							
Rev. 1.0 (Ver. 02/24)	Initial Release						

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Material Declaration

<Date of declaration>

Date: 28-Feb-24

<MD ID Number>

MD-ID-No. MD_ENT_UK_20240228

<Other information>

Remark 1	N/A
Remark 2	N/A
Remark 3	N/A

Company name Entel UK Limited Division name **Quality Assurance** Address 320 Centennial Avenue Centennial Park, Elstree Borehamwood, Herts WD6 3TJ United Kingdom Contact person Mike Jamieson +44 (0)20 8236 0032, Ext 239 or 219 Telephone no Fax number E-mail address mike.jamieson@entel.co.uk SDoC ID no SD ENT UK 20240228

<Supplier (Respondent) Information>

<Product Information>

Product Catogory	Product	Delivered Unit		Product Information			
Product Category	Number	Weight	Unit	Product Information			
Fire Fighter Transceivers VHF	DT844FF	0.435	kg	MED Wheel mark approved Fire Fighter radio. ATEX II 2G Ex ib IIB T4 Gb Ta= -20C to +40C			
	DT944FF DT885FF			MED Wheel mark approved Fire Fighter radio. ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C MED Wheel mark approved Fire Fighter radio. ATEX II 2G Ex ib IIB T4 Gb Ta= -20C to +40C			
Fire Fighter Transceivers UHF	DT985FF	0.435	kg	MED Wheel mark approved Fire Fighter radio. ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C			
	DT542			Marine Transceiver Displayless. IECEx Ex ib IIB T4 Gb Ta= -20C to +40C			
	DT544			Marine Transceiver Display, IECEX Ex ib IIB T4 Gb Ta= -20C to +40C			
	DT842			Marine Transceiver Displayless. ATEX II 2G Ex ib IIB T4 Gb Ta= -20C to +40C			
DT Marine VHF	DT844	0.435	kg	Marine Transceiver Display. ATEX II 2G Ex ib IIB T4 Gb Ta= -20C to +40C			
	DT942			Marine Transceiver Displayless. ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C			
	DT944			Marine Transceiver Display. ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C			
	DT582M			Marine Transceiver Displayless. IECEx Ex ib IIB T4 Gb Ta= -20C to +40C			
	DT585M			Marine Transceiver Display. IECEx Ex ib IIB T4 Gb Ta= -20C to +40C			
DT Marine UHF	DT882M	0.435	kg	Marine Transceiver Displayless. ATEX II 2G Ex ib IIB T4 Gb Ta= -20C to +40C			
DI Marine Orn	DT885M	0.133	1,9	Marine Transceiver Display. ATEX II 2G Ex ib IIB T4 Gb Ta= -20C to +40C			
	DT982M			Marine Transceiver Displayless. ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C			
	DT985M			Marine Transceiver Display. ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C			
	DT522			DMR/Analogue Land Transceiver Displayless. IECEx Ex ib IIA T4 Gb Ta= -20C to +40C			
	DT525 DT822			DMR/Analogue Land Transceiver Display. IECEx Ex ib IIA T4 Gb Ta= -20C to +40C			
DT Land VHF	DT825	0.435	kg	DMR/Analogue Land Transceiver Displayless. ATEX II 2G Ex ib IIA T4 Gb Ta= -20C to +40C DMR/Analogue Land Transceiver Display. ATEX II 2G Ex ib IIA T4 Gb Ta= -20C to +40C			
	DT922			DMR/Analogue Land Transceiver Displayless. ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C			
	DT925			DMR/Analogue Land Transceiver Displayiess. ATEX II 2G Ex ib IIC T4 Gb Ta = -20C to +40C			
	DT582			DMR/Analogue Land Transceiver Displayless. IECEx Ex ib IIA T4 Gb Ta= -20C to +40C			
	DT585			DMR/Analogue Land Transceiver Display. IECEx Ex ib IIA T4 Gb Ta= -20C to +40C			
	DT882			DMR/Analogue Land Transceiver Displayless. ATEX II 2G Ex ib IIA T4 Gb Ta= -20C to +40C			
DT Land UHF	DT885	0.435	kg	DMR/Analogue Land Transceiver Display. ATEX II 2G Ex ib IIA T4 Gb Ta= -20C to +40C			
	DT982			DMR/Analogue Land Transceiver Displayless. ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C			
	DT985			DMR/Analogue Land Transceiver Display. ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C			
DX Marine UHF	DX482M	0.267	kg	DMR/Analogue Marine Transceiver, Displayless			
DA Marine OHF	DX485M	0.267	ĸg	DMR/Analogue Marine Transceiver, Display			
DX Land VHF	DX422	0.267	kg	DMR/Analogue Land Transceiver, Displayless			
DA Edila VIII	DX425	0.207	1,9	DMR/Analogue Land Transceiver, Display			
DX Land UHF	DX482	0.267	kg	DMR/Analogue Land Transceiver, Displayless			
	DX485	0.207 Kg		DMR/Analogue Land Transceiver, Display			
DX-IS Marine VHF	DX542-IS	0.289	kg	Marine Transceiver Displayless. UL913 intrinsically safe approved			
	DX544-IS		_	Marine Transceiver Display. UL913 intrinsically safe approved			
DX-IS Marine UHF	DX582M-IS DX585M-IS	0.289	kg	Marine Transceiver Displayless. UL913 intrinsically safe approved Marine Transceiver Display. UL913 intrinsically safe approved			
	DX522-IS			DMR/Analogue Land Transceiver, Displayless, UL913 intrinsically safe approved			
DX-IS Land VHF	DX525-IS	0.289	kg	DMR/Analogue Land Transceiver, Displayiess, 02515 intrinsically safe approved			
	DX582-IS		_	DMR/Analogue Land Transceiver, Displayless, UL913 intrinsically safe approved			
DX-IS Land UHF	DX585-IS	0.289	kg	DMR/Analogue Land Transceiver, Display, UL913 intrinsically safe approved			
HT700 Land VHF	HT722			Analogue Land Transceiver, Displayless, 3keys			
	HT723	0.277	Lan	Analogue Land Transceiver, Display, 3keys			
	HT725	0.277 kg	Kg	Analogue Land Transceiver, Display, 8 keys			
	HT726			Analogue Land Transceiver, Display, 20 keys			
HT700 Land UHF	HT782		kg	Analogue Land Transceiver, Displayless, 3keys			
	HT783	0.277		Analogue Land Transceiver, Display, 3keys			
	HT785	0.277	۵	Analogue Land Transceiver, Display, 8 keys			
	HT786			Analogue Land Transceiver, Display, 20 keys			
HT644 Marine VHF	HT644	0.277	kg	Marine Transceiver, Display, 7keys			





	CNB450E	0.12		2200mAh Rechargeable Lithium-Ion Battery Pack with belt Clip
	CNB750E	0.12		2200mAh Rechargeable Lithium-Ion Battery Pack with belt Clip
	CNB450E-IS	0.12		2200mAh Rechargeable Lithium-Ion Battery Pack with belt Clip
Battery Packs	CNB550EV2	0.13	kg	1800mAh Rechargeable Lithium-Ion Battery Pack with belt Clip
	CNB950EV2	0.13		1800mAh Rechargeable Lithium-Ion Battery Pack with belt Clip
	CLB750G	0.14		Primary Lithium battery pack with belt Clip
	CLB850FF	0.16		ATEX approved emergency one-shot battery pack with rear clip (DT844FF & DT885FF only)

Unit

<Material Information>

This material information shows the amount of hazardous materials contained in 1 piece

his material ii	nformation sh	ows the amount of hazardous	s materials contained	in <u> </u>	picco	-	
Table	Material Name		Threshold level	Present above threshold level	IF YES Material Mass		IF YES
				Yes / No	Amount	Unit	Information on where it is used
Table A (materials listed in appendix 1	Asbestos		0.10%	No			
	Polychlorinat	ed Biphenyls (PCBs)	50mg/kg	No			
		Chlorofluorcaobons (CFCs)		No			
		Halons	no threshold level	No			
		Other fully Halogenated CFCs		No			
	Ozone	Carbon Tetrachloride		No			
	depleting Substances	1,1,1-Trichloroethane		No			
of the	Substances	Hydrochlorofluorcarbons		No			
Convention)		Hydrobromofluorcarbons		No			
		Methyl Bromide		No			
		Bromochloromethane		No			
	Anti-fouling systems containing organotin compounds as a biocide		2,500 mg total tin/kg	No			
	Cadmium and Cadmium Compounds		100 mg/kg	No			
Table B **	Hexavalent Chromium and Hexavalent Chromium Compounds		1000 mg/kg	No			
Table b	Lead and Lead Compounds		1000 mg/kg	No			
(materials listed in appendix 2 of the Convention)	Mercury and Mercury Compounds		1000 mg/kg	No			
	Polybrominated Biphenyl (PBBs)		50 mg/kg	No			
	Polybrominated Diphenyl Ether (PBDEs)		1000 mg/kg	No			
	Polychloronaphalenes (CI>=3)		50 mg/kg	No			
	Radioactive substances		no threshold level	No			
	Certain Shortchain Chlorinated Paraffins		1%	No			
Annex II***	Perfluorooctane sulfonic acid (PFOS)		10 mg/kg****	No			
(Additional Materials)	Brominated Flame Retardant (HBCDD)		100 mg/kg	No			

^{*}Please refer to footnote 18 on the "Form of Material Declaration" in the IMO Guidelines Resolution MEPC.269(68).

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^{**}Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships, 2009 (SR/CONF/45).

^{***}Regulation EU No. 1257/2013 of the European Parliament and of the Council of 20 November 2013 on Ship Recycling and amending Regulation EC No. 1013/2006 and Directive 2009/16/EC EMSA's Best Practice Guidance on the Inventory of Hazardous Materials, dated 2016-10-28

^{****}Concentrations of PFOS above 10 mg/kg (0.001% by weight) when it occurs in substances or in preparations or concentrations of PFOS in semi-finished products or articles, or parts thereof equal to or above 0.1% by weight calculated with reference to the mass of structurally or micro-structurally distinct parts that contain PFOS or for textiles or other coated materials, if the amount of PFOS is equal to or above than 1 μ g/m² of the coated materials.