

# SAFETY DATA SHEET

## UFAROL TCL 92 N

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	23.03.2018
Revision date	23.03.2018

#### 1.1. Product identifier

Product name	UFAROL TCL 92 N
Chemical name	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts
Synonyms	Sodium lauryl sulphate
REACH Reg. No.	01-2119489463-28-0002
CAS No.	85586-07-8
Article no.	F0571

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

Function	Description: Surfactant
Use of the substance / preparation	For production of hard surface- and laundry detergents.
Relevant identified uses	SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites SU8 Manufacture of bulk, large scale chemicals (including petroleum products) SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys) SU21 Consumer uses: Private households (= general public = consumers) SU22 Professional uses: publicly accessible (administration, education, entertainment, services, craftsmen) PC3 Air freshener PC8 Biocidal Products (e.g. Disinfectants, pest control) PC39 Cosmetics, personal care products PC21 Laboratory chemicals PC28 Perfumes, fragrances PC31 Polishes and wax blends PC35 Washing and cleaning products (including solvent based products) PROC1 Use in closed process, no likelihood of exposure PROC2 Use in closed, continuous process with occasional controlled exposure PROC3 Use in closed batch process (synthesis or formulation) PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10 Roller application or brushing PROC11 Non-industrial

	sprayingPROC13 Treatment of articles by dipping and pouringPROC14 Production of preparations or articles by tableting, compression, extrusion, pelletisationPROC15 Use as laboratory reagentERC1 Manufacture of substancesERC2 Formulation of preparationsERC4 Industrial use of processing aids in processes and products, not becoming part of articlesERC8B Wide dispersive indoor use of reactive substances in open systemsERC8D Wide dispersive outdoor use of processing aids in open systems
Uses advised against	No specific uses advised against are identified.

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

#### Manufacturer

Company name	Craftovator Limited
Office address	FLEETWOOD HOUSE, 1 Albion Cl, Slough
Postal address	FLEETWOOD HOUSE, 1 Albion Cl, Slough
Postcode	SL2 5DT
City	Slough
Country	United Kingdom
Telephone number	+44 (0)1753 267895
Fax	+44 (0)1753 267895
Email	<a href="mailto:info@craftovator.co.uk">info@craftovator.co.uk</a>
Website	<a href="https://www.craftovator.co.uk">https://www.craftovator.co.uk</a>
Enterprise No.	

### 1.4. Emergency telephone number

Emergency telephone	Office hours: +44 (0)1753 267895 After Hours Mobile: +44 (0)1753 267895
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## SECTION 2: Hazards identification

### 2.1. Classification of substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Acute tox. 4; H302
	Skin Irrit. 2; H315
	Eye Dam. 1; H318
	Aquatic Chronic 3; H412

### 2.2. Label elements

#### Hazard pictograms (CLP)



Signal word

Danger

Hazard statements	H302 Harmful if swallowed. H315 Causes Skin irritation. H318 Causes Serious eye damage. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P280 Wear protective gloves/protective clothing/eye protection/face protection. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P332 + P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P101 If medical advice is needed, have product container or label at hand. P243 Take precautionary measures against static discharge.

### 2.3. Other hazards

PBT / vPvB	Not Classified as PBT/vPvB by current EU criteria.
Description of hazard	Irritating to skin. Risk of serious damage to eyes. Harmful if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Other hazards	Take precautionary measures against static discharge. Keep away from heat / sparks / open flames / hot surfaces. — No smoking. See section 10.4 for data.

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

Chemical purity	UVCB substance.		
Substance	Identification	Classification	Contents
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	CAS No.: 85586-07-8	Acute tox. 4;H302 Eye Dam. 1;H318 Skin Irrit. 2;H315 Aquatic Chronic 3; H412	90 – 100 %
Substance comments	See section 16 for explanations to H-phrases		

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General	Rinse with water
Inhalation	Fresh air and rest
Skin contact	Rinse the skin immediately with lots of water. Get medical attention if any discomfort continues. Use suitable lotion to moisturise skin.
Eye contact	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention. Contact physician if discomfort continues.
Ingestion	Immediately rinse mouth and provide fresh air. Drink plenty of water. Do not give laxatives. Get medical attention.
Recommended personal protective equipment for first aid responders	Not relevant.

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

Information for health personnel	Treat Symptomatically. Get medical attention if any discomfort continues.
Acute symptoms and effects	Contact with eyes causes severe eye irritation. Contact with skin causes irritation and redness. Inhalation may cause irritation of the upper respiratory airways.
Delayed symptoms and effects	Ingestion may cause damage to the stomach and intestinal mucosa, with nausea, vomiting, diarrhea.

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

Medical monitoring for delayed effects	Health surveillance of workers is foreseen in accordance with Article 10 of Directive 98/24/EC, if it is appropriate to the nature of the risk.
Contraindications	In case of swallowing, do NOT induce vomiting.
Separate first aid equipment	Facilities at site: Eye wash and safety shower.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	All types of fire extinguisher may be used. This product is not flammable.
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### 5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	No unusual fire or explosion hazards noted.
Hazardous combustion products	Fire creates: Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO). Sulphurous gases (SO <sub>x</sub> ).

### 5.3. Advice for firefighters

Personal protective equipment	In case of fire, wear a self contained breathing apparatus.
Fire fighting procedures	Use water to keep fire-exposed containers cool and disperse vapours.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Risk of contact: Wear protective gloves and goggles/face shield. Try to limit any spill. Avoid generation and spreading of dust. Avoid inhalation of dust. In case of spills, beware of slippery floors and surfaces.
Emergency procedures	Evacuate personell to well ventilated, safe areas.
For emergency responders	Wear appropriate protective equipment as detailed in section 8.

### 6.2. Environmental precautions

Environmental precautionary measures	The product dissolves in water and it is readily biodegradable.
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### 6.3. Methods and material for containment and cleaning up

Cleaning method	Collect any spilled product and deliver it to a qualified recipient according to local regulations. Small amounts are rinsed away with water. The product will give slippery
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surface.

## 6.4. Reference to other sections

Other instructions      Section 8: Personells safety equipment.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Handling      Avoid spilling, skin and eye contact. Avoid handling which leads to dust formation. Change contaminated clothing. Container must be kept tightly closed. Do not eat, drink or smoke when using the product. Provide easy access to water supply and eye wash facilities.

### Protective safety measures

Advice on general occupational hygiene      First-aid equipment, including eye wash bottle, must be available at the work site. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

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

Storage      Store in a dry place. The bags must be stored unopened or sealed.

### Conditions for safe storage

Requirements for storage rooms and vessels      Seal opened containers and use up as soon as possible.

Storage temperature      Value: < 30 °C

### 7.3. Specific end use(s)

Specific use(s)      The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

Other Information about threshold limit values      All values are in mg/kg

Biological limit value      Recommended monitoring procedures: The measurement of substances at the workplace must be carried out with standardized methods or appropriate methods.

### DNEL / PNEC

DNEL      Group: Worker  
Route of exposure: Long term (repeated) – Inhalation – Systemic effect  
Value: 285

Group: Consumer  
Route of exposure: Long term (repeated) – Oral – Systemic effect  
Value: 24

PNEC	Group: Consumer Route of exposure: Long term (repeated) – Dermal – Systemic effect Value: 2440
	Group: Consumer Route of exposure: Long term (repeated) – Inhalation – Systemic effect Value: 85
	Group: Worker Route of exposure: Long term (repeated) – Dermal – Systemic effect Value: 4060
	Route of exposure: Sediment Value: 3,58
	Route of exposure: Water Value: 0,102
	Route of exposure: Soil Value: 0,654
	Route of exposure: Sediment Value: 0,358 Comments: Marine water
	Route of exposure: Water Value: 0,01 Comments: Marine water
	Route of exposure: Sewage treatment plant STP Value: 1084

## 8.2. Exposure controls

### Safety signs



### Precautionary measures to prevent exposure

Appropriate engineering controls	Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust. The use of closed processes and personal protective equipments significantly minimize worker exposure to the substance.
Product related measures to prevent exposure	The implementation of RMMs should ensure that the likelihood of an event occurring due to the FAS hazards is negligible and the risk is considered to be controlled to a level of no concern.
Organisational measures to prevent exposure	All handling to take place in well-ventilated area.
Technical measures to prevent exposure	An eye wash bottle must be available at the work site.

### Eye / face protection

Required Properties	Wear approved chemical safety goggles where eye exposure is reasonably probable.
Suitable eye protection	Wear tight-fitting goggles or face shield.
Eye protection equipment	Reference to relevant standard: Ref EN 166
Eye protection, comments	An eye wash bottle must be available at the work site

## Hand protection

Skin- / hand protection, long term contact	For prolonged or repeated skin contact use suitable protective gloves.
Skin- / hand protection, long term contact	For prolonged or repeated skin contact use suitable protective gloves.
Suitable gloves type	Use suitable protective gloves if risk of skin contact.
Suitable materials	Neoprene, nitrile, polyethylene or PVC.
Breakthrough time	Value: 480 minute(s) Comments: Viton rubbergloves test EN 374
Thickness of glove material	Comments: Protective index 6
Hand protection, comments	The product contains no solvents

## Skin protection

Suitable protective clothing	Wear appropriate clothing to prevent any possibility of skin contact.
Skin protection remark	Use appropriate skin cream to prevent drying of skin.

## Respiratory protection

Respiratory protection necessary at	Wear respirator if there is dust formation. Use specified dust masks.
Recommended type of equipment	Dust mask/respirator.

## Hygiene / environmental

Specific hygiene measures	Use appropriate skin cream to prevent drying of skin.
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## SECTION 9: Physical and chemical properties

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

Physical state	White to off-white needles.
Colour	White / off-white.
Odour	Characteristic.
pH	Status: In aqueous solution Value: 9 – 10 Method: Concentration 1 % a.m
Melting point / melting range	Value: 95 – 105 °C
Boiling point / boiling range	Value: > 187 °C
Flash point	Value: > 206 °C

	Method: 1013 mBar Comments: Not flammable.
Vapour pressure	Value: < 0,18 Pa Temperature: 20 °C
Vapour density	Comments: Not relevant.
Bulk density	Value: 500 kg/m <sup>3</sup>
Solubility	Medium: Water Value: > 300 g/l Temperature: 20 °C  Name: Alcohol Value: < 1.5 g/l Temperature: 20 °C
Partition coefficient: n-octanol/water	Value: 5,9 Temperature: 20 °C
Spontaneous combustability	Value: > 302 °C
Explosive properties	Not explosive
Oxidising properties	Not oxidizing.

## 9.2. Other information

### Physical hazards

Particle size	Value: 200 – 4000 Micron
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### Other physical and chemical properties

Physical and chemical properties	Surface tension: Ca. 30 mN/m at 23°C. 0.1 % (w/w) active tenside solution in water. OECD 115 (ring method)
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	May react with strong acids and strong oxidizers
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### 10.2. Chemical stability

Stability	The product is stable under the recommended handling and storage conditions.
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### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not relevant.
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### 10.4. Conditions to avoid

Conditions to avoid	Risks concerning dust formation: Minimum ignition energy: 15-20 mJ. Risks concerning dust formation: Lower limit (explosion): 40 – 50 g/1000 litres. Risks concerning dust formation: Maximum explosion pressure: 7,5 bar. Risks concerning dust formation: K(st): 170 bar m/s.
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## 10.5. Incompatible materials

Materials to avoid	Avoid contact with oxidising agents. Strong acids. Avoid heat.
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## 10.6. Hazardous decomposition products

Hazardous decomposition products	Fire creates: Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO). Sulphurous gases (SO <sub>x</sub> ).
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: ~ 1800 mg/kg Species: Rat
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### Other information regarding health hazards

Inhalation	Irritating to respiratory system. Dust may irritate throat and respiratory system and cause coughing.
Skin contact	Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Irritating to skin.
Eye contact	Risk of serious damage to eyes. May irritate and cause redness and pain.
Ingestion	Harmful if swallowed. The product causes irritation of mucous membranes and may cause abdominal discomfort if swallowed.
Ingestion	LOAEL= 300 mg/kg bw/day in rats, 28 days. NOAEL= 100 mg/kg bw/day in rats, 28 days
Sensitisation	Not Sensitising.
Chronic effects	FAS is not sensitising to the skin.
Mutagenicity	Not mutagenic substance.
Carcinogenicity, other information	This substance has no evidence of carcinogenic properties.
Reproductive toxicity	No reproductive toxicity.
STOT-single exposure	Not a specific target organ toxicant(STOT) by single – exposure.
STOT-repeated exposure	Not a specific target organ toxicant(STOT) by long time exposure.
Aspiration hazard	FAS does not cause aspiration toxicity.

### Symptoms of exposure

Comments	Not a specific target organ toxicant(STOT) by single – or long time exposure.
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## SECTION 12: Ecological information

### 12.1. Toxicity

Acute aquatic, fish	Value: 3,6 mg/L
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Acute aquatic, algae	<p>Test duration: 96 Species: <i>Oncorhynchus mykiss</i> Method: LC 50, OECD 203</p> <p>Value: &gt; 20 mg/L Test duration: 72 Species: <i>Desmodesmus subspicatus</i> Method: ERC 50, EU Met C3</p>
Acute aquatic, Daphnia	<p>Value: 4,7 mg/L Test duration: 48 Species: <i>Daphnia magna</i> Method: EC 50, EG/92/69/EWG</p>
Other ecotoxicological information, fish	<p>Long term tox study: NOEC &lt; 1,357 mg/L. <i>Pimephales promelas</i> – 42 days</p>
Other ecotoxicological information, algae and plant	<p>Long term tox study: NOErC &lt; 0,6 mg/L. <i>Desmodesmus subspicatus</i> – 72 hours</p>
Other ecotoxicological information, crustaceans	<p>Long term tox study: NOEC &lt; 0,508 mg/L. <i>Ceriodaphnia dubia</i> – 7 days</p>
Aquatic, comments	<p>Wasser Gefahr Klasse (Germany): WGK 2</p>

## 12.2. Persistence and degradability

Persistence and degradability description	<p>FAS is readily biodegradable in water, in sediment and soil.</p>
Biodegradability	<p>Value: &gt; 78 Method: Primary biodegradation, OECD 301B, 301D Test period: 28 days</p>
Persistence and degradability, comments	<p>The product is readily degradable. The product contains surfactants with biodegradability of more than 78 % in 28 days. Therefore it is not persistent, but readily biodegradable.</p>

## 12.3. Bioaccumulative potential

Bioaccumulative potential	<p>Total biodegradation: 88-96 % MOST (OECD 301-E). Total biodegradation: 63-95 % (Closed Bottle Test). Total biodegradation: 64-96 % Sturm (OECD 301 B).</p>
Bioconcentration factor (BCF)	<p>Value: -2,42 Method: LogKow, OECD 107 Comments: No potential for bioaccumulation.</p>

## 12.4. Mobility in soil

## 12.5. Results of PBT and vPvB assessment

PBT assessment results	<p>This product does not contain any PBT or vPvB substances.</p>
vPvB evaluation results	<p>This product does not contain any PBT or vPvB substances.</p>

## 12.6. Other adverse effects

Other adverse effects, comments	<p>No other adverse effects are expected.</p>
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Specify the appropriate methods of disposal

Small amounts may be flushed with water to sewer. Larger volumes must be sent to approved plant for destruction. Dispose of waste and residues in accordance with local authority requirements. Incinerate with provision for removal of effluent gases by scrubber.

EWC waste code

EWC waste code: 070699 wastes not otherwise specified

## SECTION 14: Transport information

Dangerous goods

No

### 14.1. UN number

### 14.2. UN proper shipping name

### 14.3. Transport hazard class(es)

### 14.4. Packing group

### 14.5. Environmental hazards

### 14.6. Special precautions for user

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

### Additional information

Additional information

No dangerous goods under transport regulations.

## SECTION 15: Regulatory information

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

EEC-directive

EC regulation 1907/2006, Directives: 67/548/EEC(2006/121/EC), 99/45/EC (EC) No 1272/2008 Regulation (EU) 2015/830 of 28 may 2015

Legislation and regulations

No specific restrictions of use are noted for this product.

Comments

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Declaration No.

01-2119489463-28-0002 (Reach reg nbr.)

### 15.2. Chemical safety assessment

Chemical safety assessment performed

Yes

CSR required	Yes
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## SECTION 16: Other information

Supplier's notes	THE ABOVE MENTIONED INFORMATION IS BASED ON CRAFTOVATOR'S EXPERIENCE AND KNOWLEDGE IN THIS FIELD. THE INFORMATION IS ONLY A GUIDE FOR APPLICATION OF THIS PRODUCT, AND CRAFTOVATOR GIVES NO GUARANTEE FOR THE PRODUCT'S PROPERTIES OR FOR THE RESULTS FROM THE APPLICATION OF THE PRODUCT, WHICH LIES OUTSIDE CRAFTOVATOR'S CONTROL. CRAFTOVATOR'S RESPONSIBILITY AND GUARANTEE IN SELLING THIS PRODUCT ARE COVERED AT ALL TIMES BY THE RELEVANT GENERAL SALES CONDITIONS.
List of relevant H-phrases (Section 2 and 3)	H318 Causes Serious eye damage. H302 Harmful if swallowed. H412 Harmful to aquatic life with long lasting effects. H315 Causes Skin irritation.
Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Acute tox. 4; H302; Skin Irrit. 2; H315; Eye Dam. 1; H318; Aquatic Chronic 3; H412;
Recommended restrictions on use	No restrictions for use.
Additional information	Specific concentration limits: Solutions containing < 10 % is not classified. Concentrations between 10 and 20 % classified as Eye irrit 2, H319.
Key literature references and sources for data	"Classification and labelling of Surfactants for human health hazards according to the Dangerous Substances Directive" CESIO, January 2000. "Ökologisch relevante Daten von Tensiden in Wasch-und Reinigungsmittel" of Dr.K.J.Bock, Dr.L.Huber and Dr.P.Schöberl. EC regulation 1907/2006 Alkyl Sulfates, Environmental Risk assessment, HERA, March 2002. Alcohol Sulphates, Human Health Risk Assessment, HERA, December 2002
Abbreviations and acronyms used	UVCB: Substances of unknown or variable composition. PNEC: Predicted no effect concentration. PBT: Persistent, Bioaccumulative, and Toxic substance. NOEC: No observed effect concentration. NOAEL: No observed adverse effect level. LOEC:Lowest observed effect concentration. LOAEL: Lowest observed adverse effect level. DNEL: Derived no effect level
Information added, deleted or revised	New CAS number, CLP classification, REACH reg.
Version	1