SAFETY DATA SHEET

according to Regulation (EU) 2015/830

CAR AND VEHICLE TFR

Revision 27

Revision date 2020-11-06

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

1.1. Product identifier

Product name	CAR AND VEHICLE TFR
Product code	QAFS224

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

Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC35] Washing and cleaning products (including solvent based products);
Description	Alkaline detergent system specially formulated for the exterior cleaning of all vehicle types.

1.3. Details of the supplier of the safety data sheet

Company	Superfine Manufacturing Ltd
Address	Orchardbank Industrial Estate Forfar Angus Scotland DD8 1TD
Web	www.superfine.co.uk
Telephone	Tel: 01307 463538
Fax	Fax: 01307 468505
Email	nigel@superfine.co.uk
Email address of the competent person	nigel@superfine.co.uk

1.4. Emergency telephone number

Emergency telephone number	01307 463538 8.30am to 17.00pm National Poisons Information Service: For medical advice or information you should contact your GP or NHS 111 (or NHS 24 in Scotland) on 111 (for 24 hour health advice) If you are a healthcare professional with an enquiry please visit www.TOXBASE.org

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Skin Corr. 1A: H314;

2.2. Label elements

Hazard pictograms	

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2.2. Label elements

Signal Word	Danger
Hazard Statement	Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.
Precautionary Statement: Prevention	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 -Immediately call a POISON CENTER/doctor/ . P363 - Wash contaminated clothing before reuse.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to an approved disposal site, in accordance with local regulations.
SUPPLEMENTAL HAZARD INFORMATION	Ingredients as required by Regulation (EC) No 648/2004:. 5 - 15% Amphoteric Surfactants, 5 - 15% Anionic Surfactants, Butylene Glycol, NTA and salts thereof, Less than 5% Non-ionic surfactant.

2.3. Other hazards

Other hazards	This mixture is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
C9-11 Alcohol Ethoxylate with EO		68439-45-2			1 - 10%	Acute Tox. 4: H302; Eye Dam. 1: H318;
Triethanolamine		102-71-6	203-049-8	01-2119486482-31	1 - 10%	
1-Propanaminium, 3-amino-N-(carboxymethyl) -N,N-dimethyl-,N-C8-C18 (even numbered) acyl derivs., hydroxides, inner salts		97862-59-4	931-296-8	01-2119488533-30	1 - 10%	Eye Dam. 1: H318; Aquatic Chronic 3: H412;
trisodium nitrilotriacetate	607-620-00-6	5064-31-3	225-768-6	01-2119519239-36	1 - 10%	Carc. 2: H351; Acute Tox. 4: H302; Eye Irrit. 2: H319;
sodium (xylenes and 4-ethylbenzene) sulfonate			701-037-1	01-2119513350-56	1 - 10%	Eye Irrit. 2: H319;
Diethanolamine		111-42-2	203-868-0	01-2119488930-28	0 - 0.5%	Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Dam. 1: H318; Repr. 2: H361fd; STOT RE 2: H373;
Sodium Metasilicate Pentahydrate		10213-79-3	229-912-9	01-2119449811-37	1 - 10%	Met. Corr. 1: H290; Skin Corr. 1B: H314; STOT SE 3: H335;
2-butoxyethanol	603-014-00-0	111-76-2	203-905-0	01-2119475108-36	1 - 10%	Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315;
sodium hydroxide	011-002-00-6	1310-73-2	215-185-5	01-2119457892-27	1 - 10%	Skin Corr. 1A: H314;

Further information

Product Shelf Life	RECOMMENDED SHELF LIFE 1 YEAR FROM DATE OF DELIVERY.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Contact lenses should be removed.
Skin contact	Remove contaminated clothing. Wash off immediately with plenty of soap and water.

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4.1. Description of first aid measures

Ingestion	DO NOT INDUCE VOMITING. Rinse mouth thoroughly. Drink plenty of water to dilute ingested product.

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

Inhalation	May cause irritation to respiratory system.
Eye contact	Causes burns. Risk of serious damage to eyes.
Skin contact	Causes burns.
Ingestion	May cause irritation to mucous membranes.

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

Inhalation	Move the exposed person to fresh air. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Seek medical attention. Show this safety data sheet to the doctor in attendance.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Contact lenses should be removed. Seek medical attention. Show this safety data sheet to the doctor in attendance.
Skin contact	Remove contaminated clothing immediately. Rinse immediately with plenty of water. Seek medical attention. Show this safety data sheet to the doctor in attendance.
Ingestion	Drink 1 to 2 glasses of water. Seek medical attention. Show this safety data sheet to the doctor in attendance.

General information

	If you feel unwell, seek medical advice (show the label where possible). Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

	This product is not flammable . Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.

5.3. Advice for firefighters

	Fire fighters should wear self contained positive pressure breathing apparatus (SCBA) and full turnout gear.

Further information

	In the event of a fire and/or explosion do not breath fumes. Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Wear suitable protective equipment.

6.2. Environmental precautions

	Advise local authorities if large spills cannot be contained.

6.3. Methods and material for containment and cleaning up

	For large spills:. Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water. For small spills:. Flush down the drain with plenty of water.

6.4. Reference to other sections

	See section 2, 7, 8, 13 for further information.

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Do not breathe vapours or spray mist. Adopt best Manual Handling considerations when handling, carrying and dispensing.

7.2. Conditions for safe storage, including any incompatibilities

	Store in a cool, dry area. Keep container tightly closed. Keep out of the reach of children. Store in original container.

7.3. Specific end use(s)

	Alkaline detergent system specially formulated for the exterior cleaning of all vehicle types.

Suitable packaging

	Plastic containers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

	Occupational exposure controls.

8.1.1. Exposure Limit Values

2-butoxyethanol	WEL 8-hr limit ppm:	25	WEL 8-hr limit mg/m3:	123
	WEL 15 min limit ppm:	50	WEL 15 min limit mg/m3:	101.2
	WEL 8-hr limit mg/m3 total inhalable dust:	-	WEL 15 min limit mg/m3 total inhalable dust:	-
	WEL 8-hr limit mg/m3 total respirable dust:	-	WEL 15 min limit mg/m3 total respirable dust:	-
sodium hydroxide	WEL 8-hr limit ppm:	-	WEL 8-hr limit mg/m3:	-
	WEL 15 min limit ppm:	-	WEL 15 min limit mg/m3:	2
	WEL 8-hr limit mg/m3 total inhalable dust:	-	WEL 15 min limit mg/m3 total inhalable dust:	-
	WEL 8-hr limit mg/m3 total respirable dust:	-	WEL 15 min limit mg/m3 total respirable dust:	-

DNEL: Derived no-effect level.

Exposure Pattern - Workers

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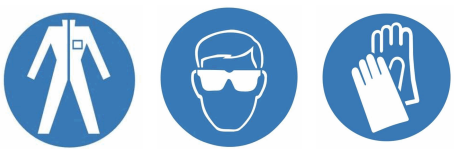
Exposure Pattern - Workers

2-butoxyethanol	Acute inhalation - Systemic effects 1091 mg/m³	
	Acute inhalation - Local effects 246 mg/m³	Acute dermal - Systemic effects 89 mg/kg
	Long-term - inhalation - Systemic effects 98 mg/m³	Long-term - dermal - Systemic effects 125 mg/kg
sodium (xylenes and 4-ethylbenzene) sulfonate	Long-term - inhalation - Systemic effects 53.6 mg/m³	
	Long-term - dermal - Systemic effects 7.6 mg/kg	
sodium hydroxide	Acute inhalation - Local effects 2 mg/m³	
	Acute dermal - Local effects 2 mg/kg	Long-term - inhalation - Local effects 1 mg/m³
Sodium Metasilicate Pentahydrate	Long-term - inhalation - Systemic effects 6.22 mg/m³	
	Long-term - dermal - Systemic effects 1.49 mg/kg	
Triethanolamine	Long-term - inhalation - Systemic effects 5 mg/m³	
	Long-term - inhalation - Local effects 5 mg/m³	Long-term - dermal - Systemic effects 6.3 mg/kg
trisodium nitrilotriacetate	Acute inhalation - Systemic effects 5.25 mg/m³	
	Long-term - inhalation - Systemic effects 3.5 mg/m³	

Exposure Pattern - General population

2-butoxyethanol	Acute inhalation - Systemic effects 426 mg/m³	
	Acute dermal - Systemic effects 89 mg/kg	Acute oral - Systemic effects 26.7 mg/kg
	Long-term - inhalation - Systemic effects 59 mg/m³	Long-term - inhalation - Local effects 147 mg/m³
	Long-term - dermal - Systemic effects 75 mg/kg	Long-term - oral - Systemic effects 6.3 mg/kg
sodium (xylenes and 4-ethylbenzene) sulfonate	Long-term - inhalation - Systemic effects 13.2 mg/m³	
	Long-term - dermal - Systemic effects 3.8 mg/kg	Long-term - oral - Systemic effects 3.8 mg/kg
sodium hydroxide	Long-term - inhalation - Local effects 1 mg/m³	
Sodium Metasilicate Pentahydrate	Long-term - inhalation - Systemic effects 1.55 mg/m³	
	Long-term - dermal - Systemic effects 0.74 mg/kg	Long-term - oral - Systemic effects 0.74 mg/kg
Triethanolamine	Long-term - inhalation - Systemic effects 1.25 mg/m³	
	Long-term - inhalation - Local effects 1.25 mg/m³	Long-term - dermal - Systemic effects 3.1 mg/kg
	Long-term - oral - Systemic effects 13 mg/kg	
trisodium nitrilotriacetate	Long-term - inhalation - Systemic effects 1.75 mg/m³	

8.2. Exposure controls



Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice. Use

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8.2. Exposure controls

	appropriate personal protective equipment. Wear suitable protective clothing and eye/face protection.
8.2.1. Appropriate engineering controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below there respective threshold limit value. Ensure eyewash stations and safety showers are close to the workstation location.
Eye / face protection	Avoid contact with eyes. If splashes are likely to occur, wear: safety glasses with side-shields. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Wear chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.
Skin protection - Handprotection	Rubber gloves. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.
Skin protection - Other	Wear suitable protective clothing.
Respiratory protection	No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment.
8.2.3. Environmental exposure controls	Prevent further leakage or spillage if safe to do so.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless
Odour	Slight
Odour threshold	No data available
pH	> 12.5
Melting point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	1.078 - 1.088 g/cm3
Partition coefficient	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	< 50 centipoise
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Soluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic compounds)	No data available

SECTION 10: Stability and reactivity

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10.1. Reactivity

	Stable under normal conditions. No specific reactivity hazards associated with this product.

10.2. Chemical stability

	Stable under normal conditions. No particular stability concerns.

10.3. Possibility of hazardous reactions

	Strong acids. Strong oxidising agents.

10.4. Conditions to avoid

	Protect from frost. Avoid storing in direct Sun Light.

10.5. Incompatible materials

	Strong acids. Strong oxidising agents.

10.6. Hazardous decomposition products

	No Hazardous decomposition products when stored and handled correctly. Burning produces irritating, toxic and obnoxious fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

	This mixture has not been tested as a whole for health effects. The health effects have been calculated using the methods outlined in Regulation (EC) No 1272/2008 (CLP).
Acute toxicity	based on available data the classification criteria are not met. Oral ATE = >10,000 mg/kg. Dermal ATE = >10,000 mg/kg. Inhalation - Dust/Mist ATE = 30 mg/l.
Skin corrosion/irritation	Skin Corr. 1A: H314 - Causes severe skin burns and eye damage. Extreme pH - ≥ 11.5.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	based on available data the classification criteria are not met.
Germ cell mutagenicity	based on available data the classification criteria are not met.
Carcinogenicity	based on available data the classification criteria are not met.
Reproductive toxicity	based on available data the classification criteria are not met.
STOT-single exposure	based on available data the classification criteria are not met.
STOT-repeated exposure	based on available data the classification criteria are not met.
Aspiration hazard	based on available data the classification criteria are not met.

11.1.2. Mixtures

	No data available.

11.1.3. Hazard Information

	No data available.

11.1.4. Toxicological Information

2-butoxyethanol	**Inhalation Rat LC50/15min:** 4500 ppm	**Inhalation Rat LC50/30min:** 11.0 mg/l
	Dermal Rat LD50: 1100 mg/kg	**Oral Rat LD50:** 1300 mg/kg
C9-11 Alcohol Ethoxylate with EO	**Oral Rat LD50:** 1100 mg/kg	
sodium (xylenes and 4-ethylbenzene) sulfonate	**Oral Rat LD50:** > 7200 mg/kg	**Dermal Rabbit LD50:** > 2000 mg/kg
	Inhalation Rat LC50/4 h: >6.41 mg/l	
Triethanolamine	**Dermal Rat LD50:** >2000 mg/kg	**Oral Rat LD50:** 6400 mg/kg
trisodium nitrilotriacetate	**Oral Rat LD50:** 1450 mg/kg	

SECTION 12: Ecological information

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12.1. Toxicity

2-butoxyethanol	**EC50 for marine or freshwater organisms** >100.0000 mg/l	**LC50 for marine or freshwater organisms** >100.0000 mg/l
sodium (xylenes and 4-ethylbenzene) sulfonate	**Daphnia EC50/48h:** 1000.0000 mg/l	**Fish LC50/96h:** 1000.0000 mg/l
sodium hydroxide	**Daphnia LC50/48h:** 40 - 240 mg/l **Bluegill sunfish LC50/96h:** 125 mg/l	**Rainbow trout LC50/96h:** 45.5 mg/l **Guppy LC50/96h:** 33 - 189 mg/l
Sodium Metasilicate Pentahydrate	**Daphnia EC50/48h:** 1700.0000 mg/l **Algae EC50/72h:** 207	**Fish LC50/96h:** 210.0000 mg/l
Triethanolamine	**Daphnia EC50/48h:** 2500.0000 mg/l **Fish LC50/96h:** 7900.0000 mg/l	**Algae IC50/72h:** 216.0000 mg/l
trisodium nitrilotriacetate	**Daphnia EC50/48h:** 780.0000 mg/l	**Green algae EC50/96h:** 98 - 312 mg/l

12.2. Persistence and degradability

Substance biodegrades at a moderate rate and inherently biodegradable according to the OECD guide lines.

12.3. Bioaccumulative potential

The product is not bioaccumulating.

Partition coefficient

CAR AND VEHICLE TFR No data available	**Triethanolamine** -2.3 Log Pow
2-butoxyethanol 0.8 log P	**sodium hydroxide** No data available

12.4. Mobility in soil

This product is soluble in water.

12.5. Results of PBT and vPvB assessment

This mixture is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

General information

Dispose of in compliance with all local and national requirements.

Disposal of packaging

Do NOT reuse empty containers. Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.

SECTION 14: Transport information

Hazard pictograms

14.1. UN number

UN1760

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14.2. UN proper shipping name

	CORROSIVE LIQUID, N.O.S. (contains Sodium Metasilicate Pentahydrate)

14.3. Transport hazard class(es)

ADR/RID	8
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-

14.4. Packing group

Packing group	III

14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

14.6. Special precautions for user

	No additional special precautions.

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

	Not applicable.

ADR/RID

Hazard ID	80
Tunnel Category	(E)

IMDG

EmS Code	F-A S-B

IATA

Packing Instruction (Cargo)	856
Maximum quantity	60 L
Packing Instruction (Passenger)	852
Maximum quantity	5 L

SECTION 15: Regulatory information

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

Regulations	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

15.2. Chemical safety assessment

	No information available.

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SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas:. 1 - Description. 1 - Product Use. 2 - Precautionary Statement: Prevention. 2 - Precautionary Statement: Response. 2 - Precautionary Statement: Storage. 2 - SUPPLEMENTAL HAZARD INFORMATION. 3 - Active Ingredients. 4 - Inhalation. 4 - Ingestion. 5 - 5.3. Advice for firefighters. 7 - 7.3. Specific end use(s). 8 - Skin protection - Handprotection. 8 - Eye / face protection. 8 - Skin protection - Other. 10 - 10.4. Conditions to avoid. 10 - 10.5. Incompatible materials. 11 - Acute toxicity. 12 - 12.4. Mobility in soil. 12 - 12.3. Bioaccumulative potential. 12 - 12.5. Results of PBT and vPvB assessment.
Data sources	Classification and Procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008:. Skin Corr. 1A: H314 - Causes severe skin burns and eye damage. - Extreme pH - ≥ 11.5.
Text of Hazard Statements in Section 3	Acute Tox. 4: H302 - Harmful if swallowed. Eye Dam. 1: H318 - Causes serious eye damage. Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects. Eye Irrit. 2: H319 - Causes serious eye irritation. Carc. 2: H351 - Suspected of causing cancer . Skin Irrit. 2: H315 - Causes skin irritation. Repr. 2: H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child. STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure . Met. Corr. 1: H290 - May be corrosive to metals. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. STOT SE 3: H335 - May cause respiratory irritation. Acute Tox. 4: H312 - Harmful in contact with skin. Acute Tox. 4: H332 - Harmful if inhaled. Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.

Further information

	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.