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**SAFETY DATA SHEET**

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

## 1.1 Product identifier

- Product Name: TFR 27 with wax
- Chemical Name: Contains sodium metasilicate pentahydrate

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

- Use of the substance/mixture: Automotive care, Cleaning agent
- Use advised against: No information available

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

- Name of Supplier: ADVANCED CLEANING VEHICLE SUPPLIES LTD
- Address of Supplier: Unit 2  
Albion Trading Estate  
Salamons Way  
Ferry Lane South  
Rainham  
Essex  
RM13 9UL
- Telephone: +44 (0)1708 553385
- Email: Info@avcsl.com

## 1.4 Emergency telephone number

- Emergency Telephone: +44 (0)1708 553385 (office hours only)
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**SECTION 2 Hazards identification**

## 2.1 Classification of the substance or mixture

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Skin Corr. 1C, H314, Eye Dam. 1, H318
- Additional information: For full text of Hazard- and EU Hazard-statements: see section 16

## 2.2 Label elements



GHS05

- Signal Word: Danger
- Contains sodium metasilicate pentahydrate
- Hazard phrases  
Causes severe skin burns and eye damage.
- Precautionary Phrases  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor/physician.

## SECTION 2 Hazards identification (....)

Dispose of contents/container to an authorised waste collection point

Supplemental Hazard Information (EU)

Label requirements for the Detergents Regulation (EC 684/2004, 907/2006): Less than 5% NTA (nitrilotriacetic acid) and salts thereof, and non-ionic surfactants

### 2.3 Other hazards

- May be corrosive to metals.
  - Not a PBT according to REACH Annex XIII
  - Not a vPvB according to REACH Annex XIII
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## SECTION 3 Composition/information on ingredients

### 3.1 Substances

### 3.2 Mixtures

- Sodium metasilicate pentahydrate  
Concentration: <5%  
CAS Number: 10213-79-3  
EC Number: 229-912-9  
Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Met. Corr. 1, H290, Skin Corr. 1B, H314, STOT SE 3, H335  
REACH Registration Number: 01-2119449811-37-XXXX
  - Trisodium nitrilotriacetate  
Concentration: <5%  
CAS Number: 5064-31-3  
EC Number: 225-768-6  
Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Acute Tox. 4, H302, Eye Irrit. 2, H319, Carc. 2, H351  
REACH Registration Number: 01-2119519239-36-XXXX
  - (C9-C11) alkyl alcohol, ethoxylated  
Concentration: <5%  
CAS Number: 68439-46-3  
EC Number: None assigned  
Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Acute Tox. 4, H302, Eye Dam. 1, H318
  - Sodium hydroxide; caustic soda  
Concentration: <1%  
CAS Number: 1310-73-2  
EC Number: 215-185-5  
Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Met. Corr. 1, H290, Skin Corr. 1A, H314  
REACH Registration Number: 01-2119457892-27-XXXX  
Substance with a workplace exposure limit, see Section 8
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## SECTION 4 First aid measures

### 4.1 Description of first aid measures

## **SECTION 4 First aid measures (....)**

- Contact with eyes
  - If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
  - Irrigate eyes thoroughly whilst lifting eyelids
  - Remove contact lenses, if present and easy to do. Continue rinsing.
  - Seek immediate medical attention
- Contact with skin
  - Remove contaminated clothing immediately and drench affected skin with plenty of water.
  - Then wash with soap and water
  - Seek immediate medical attention
- Ingestion
  - Rinse mouth.
  - Give 200-300mls (half pint) water to drink
  - Do NOT induce vomiting.
  - Get immediate medical advice/attention.
- Inhalation
  - Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - Keep warm and at rest
  - IF exposed or concerned: Get medical advice/attention.

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

- May cause burns to mouth and throat
- Prolonged skin or eye contact may cause chemical burns
- May cause respiratory irritation

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

- Treat symptomatically
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## **SECTION 5 Fire-fighting measures**

### 5.1 Extinguishing media

- In case of fire: use foam, carbon dioxide or dry agent for extinction

### 5.2 Special hazards arising from the substance or mixture

- Decomposition products may include oxides of nitrogen, sulphur and carbon
- Decomposition products may include sodium oxides

### 5.3 Advice for firefighters

- In case of fire: Stop leak if safe to do so.
  - Keep container(s) exposed to fire cool, by spraying with water
  - Prevent run off water from entering drains if possible
  - Special protective equipment: Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit.
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## **SECTION 6 Accidental release measures**

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

- Evacuate the area and keep personnel upwind
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Avoid contact with skin and eyes.
- Wash thoroughly after handling.
- Eyewash bottles should be available

### 6.2 Environmental Precautions

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## SECTION 6 Accidental release measures (....)

- Avoid release to the environment.
- Do not allow to enter public sewers and watercourses
- If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

### 6.3 Methods and material for containment and cleaning up

- Stop leak if safe to do so.
- Contain the spillage using bunding
- Absorb spillage in inert material and shovel up
- Place in appropriate container
- Seal containers and label them
- Remove contaminated material to safe location for subsequent disposal
- Ventilate the area and wash spill site after material pick-up is complete

### 6.4 Reference to other sections

- Wear protective clothing as per section 8
- 

## SECTION 7 Handling and storage

### 7.1 Precautions for safe handling

- Use only outdoors or in a well-ventilated area.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Do not get in eyes, on skin, or on clothing.
- Contaminated work clothing should not be allowed out of the workplace.
- Contaminated clothing should be laundered before reuse
- Do not eat, drink or smoke when using this product.
- Eyewash bottles should be available

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

- Store in a dry place. Store in a closed container.
- Keep only in original container.
- Keep in an area equipped with impermeable flooring.
- Keep away from heat
- Protect from frost
- Keep out of reach of children
- Keep away from food, drink and animal feedingstuffs

### 7.3 Specific end use(s)

- Cleaning agent
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## SECTION 8 Exposure controls/personal protection

### 8.1 Control parameters

- Sodium metasilicate pentahydrate  
DNEL (dermal) 1.49 mg/kg (day) Industry, Long Term, Systemic Effects  
DNEL (inhalational) 6.22 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects  
DNEL (dermal) 0.74 mg/kg (day) Consumer, Long Term, Systemic Effects  
DNEL (inhalational) 1.55 mg/m<sup>3</sup> Consumer, Long Term, Systemic Effects  
DNEL (oral) 0.74 mg/kg (day) Consumer, Long Term, Systemic Effects
- Sodium hydroxide; caustic soda  
WEL (short term) 2 mg/m<sup>3</sup> (UK)  
DNEL (inhalational) 1 mg/m<sup>3</sup> Industry, Long Term, Local Effects  
DNEL (inhalational) 1 mg/m<sup>3</sup> Consumer, Long Term, Local Effects

### 8.2 Exposure controls

**SECTION 8 Exposure controls/personal protection (....)**

- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines
- In case of inadequate ventilation wear respiratory protection.
- Wear suitable filtering half mask respirator approved to standard EN 149
- Wear suitable protective clothing, including eye/face protection and gloves (nitrile are recommended)
- The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used and the supplier should be consulted.
- Wear safety glasses approved to standard EN 166.
- Eyewash bottles should be available



Gloves



Goggles



Suit



Respirator

**SECTION 9 Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

- Appearance: Liquid, red
- Odour: No information available
- Odour threshold: No information available
- pH: 13
- Melting point/freezing point: No information available
- Initial boiling point and boiling range: >100°C
- Flashpoint: >100°C
- Evaporation Rate: No information available
- Flammability (solid,gas): Not flammable
- Upper/lower flammability or explosive limits: Not applicable
- Vapour Pressure: No information available
- Vapour Density: No information available
- Relative Density: 1.062 @ 20°C
- Solubility(ies): Soluble in water
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature: No information available
- Decomposition temperature: No information available
- Viscosity: No information available
- Explosive Properties: No information available
- Oxidising Properties: No information available

## 9.2 Other information

- No information available

**SECTION 10 Stability and reactivity**

## 10.1 Reactivity

- No hazardous reactions known if used for its intended purpose

## SECTION 10 Stability and reactivity (....)

### 10.2 Chemical stability

- Considered stable under normal conditions

### 10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

### 10.4 Conditions to avoid

- Keep away from heat and sources of ignition

### 10.5 Incompatible materials

- Incompatible with strong acids
- Incompatible with alkalis (strong bases)
- Incompatible with strong oxidizing substances

### 10.6 Hazardous Decomposition Products

- Decomposition products may include oxides of nitrogen, sulphur and carbon
  - Decomposition products may include sodium oxides
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## SECTION 11 Toxicological information

### 11.1 Information on toxicological effects

- Acute Toxicity  
No experimental test data available for the mixture  
LD50 (oral,rat) (sodium metasilicate) 1280 mg/kg  
LD50 (oral) : (mouse) (sodium metasilicate) 770 mg/kg  
LD50 (oral,rat) (trisodium nitrilotriacetate) 1450 mg/kg  
LD50 (oral,rat) (sodium hydroxide) 1221 mg/kg  
LC50 (inhalation, rat) (sodium hydroxide) 4.83 mg/l/4h  
Based on available data, the classification criteria are not met
- Skin corrosion/irritation  
No experimental test data available for the mixture  
Causes severe skin burns  
Classification based on calculation and concentration thresholds
- Serious eye damage/irritation  
No experimental test data available for the mixture  
Causes serious eye damage.  
Classification based on calculation and concentration thresholds
- Respiratory or skin sensitisation  
No information available
- Germ cell mutagenicity  
No information available
- Carcinogenicity  
Trisodium nitrilotriacetate is a Carcinogen Category 2, suspected of causing cancer, in concentrations above 5%
- Reproductive toxicity  
No information available
- Specific target organ toxicity (STOT) - single exposure  
No information available
- Specific target organ toxicity (STOT) - repeated exposure  
No information available

**SECTION 11 Toxicological information (....)**

- Aspiration hazard  
No information available
  - Contact with eyes  
Causes burning sensation  
Causes redness and swelling  
May cause severe damage with formation of corneal ulcers and permanent impairment of vision.
  - Contact with skin  
Causes burning sensation  
Causes blistering of the skin  
Causes redness and swelling
  - Ingestion  
May cause burns to mouth and throat  
Causes damage and corrosion of the gastrointestinal tract.  
May cause nausea/vomiting  
May cause gastro-intestinal disturbances
  - Inhalation  
May cause coughing  
May cause respiratory tract irritation.  
Effect may vary from irritation of the nasal mucous membrane to severe lung irritation.
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**SECTION 12 Ecological information**

## 12.1 Toxicity

- No experimental test data available for the mixture
- Based on available data, the classification criteria are not met
- Sodium metasilicate pentahydrate  
LC50 (fish)(brachydanio rerio) 180 mg/l (96 hr)  
EC50 (Daphnia magna) 1700 mg/l (48 hr)
- Trisodium nitrilotriacetate  
LC50 (fish) 98 - 312 mg/l (96 hr)  
EC50 (Daphnia magna) 780 mg/l (48 hr)
- (C9-C11) alkyl alcohol, ethoxylated  
No information available
- Sodium hydroxide; caustic soda  
LC50 (Oncorhynchus mykiss) 7 mg/l (96 hr)

## 12.2 Persistence and degradability

- The surfactant(s) contained in this preparation complies(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.

## 12.3 Bioaccumulation Potential

- Log Kow - not available for the mixture
- Bioaccumulation is insignificant

## 12.4 Mobility in soil

- Completely soluble in water

## SECTION 12 Ecological information (....)

- Absorbs on soil
- 12.5 Results of PBT and vPvB assessment
- Not a PBT according to REACH Annex XIII
  - Not a vPvB according to REACH Annex XIII
- 12.6 Other Adverse Effects
- No information available
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## SECTION 13 Disposal considerations

- 13.1 Waste treatment methods
- Disposal should be in accordance with local, state or national legislation
  - This material and its container must be disposed of as hazardous waste
  - Dispose of contents/container to an authorised waste collection point
  - Do not reuse empty containers without commercial cleaning or reconditioning
- 13.2 Classification
- Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.
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## SECTION 14 Transport information



Corrosive

- 14.1 UN Number
- UN No.: 3253
- 14.2 Proper Shipping Name
- Proper Shipping Name: DISODIUM TRIOXOSILICATE SOLUTION
- 14.3 Transport hazard class(es)
- Hazard Class: 8
- 14.4 Packing group
- Packing Group: III
- 14.5 Environmental hazards
- Not Classified
- 14.6 Special precautions for user
- No information available
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
- Not applicable
- 14.8 Road/Rail (ADR/RID)
- ADR UN No.: 3253
  - Proper Shipping Name: DISODIUM TRIOXOSILICATE SOLUTION
  - ADR Hazard Class: 8
  - ADR Packing Group: III
  - Tunnel Code: E
- 14.9 Sea (IMDG)
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## **SECTION 14 Transport information (....)**

- IMDG UN No.: 3253
- Proper Shipping Name: DISODIUM TRIOXOSILICATE SOLUTION
- IMDG Hazard Class: 8
- IMDG Pack Group.: III

### 14.10 Air (ICAO/IATA)

- ICAO UN No.: 3253
  - Proper Shipping Name: DISODIUM TRIOXOSILICATE SOLUTION
  - ICAO Hazard Class: 8
  - ICAO Packing Group: III
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## **SECTION 15 Regulatory information**

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

- This Safety Data Sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 as amended by Regulation (EU) 2015/830
- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010
- Label requirements for the Detergents Regulation (EC 684/2004, 907/2006): Less than 5% NTA (nitrilotriacetic acid) and salts thereof, and non-ionic surfactants

### 15.2 Chemical Safety Assessment

- A REACH chemical safety assessment has not been carried out
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## **SECTION 16 Other information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

- H290: May be corrosive to metals
- H302: Harmful if swallowed
- H314: Causes severe skin burns and eye damage
- H318: Causes serious eye damage
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation
- H351: Suspected of causing cancer

**SECTION 16 Other information (....)**INFORMATION ON INGREDIENTS AS REQUIRED BY THE DETERGENTS  
REGULATION (EC) NO. 648/2004

## TFR 27 WITH WAX

CONC. OF INGREDIENT	CHEMICAL NAME	INCI NAME	PH.EUR. NAME	CAS NO.
1% or over, but less than 10%	Sodium metasilicate pentahydrate			10213-79-3
1% or over, but less than 10%	Trisodium nitriloacetate	Trisodium NTA		5064-31-3
1% or over, but less than 10%	(C9-C11) Alkyl alcohol, ethoxylated	C9-11 Pareth		68439-46-3
0.1% or over, but less than 1%	Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, Me sulfates (salts)	PEG-Cocomonium Methosulfate		68989-03-7
0.1% or over, but less than 1%	Sodium hydroxide	Sodium hydroxide	Natrii hydroxidum	1310-73-2
Less than 0.1%	Organomodified Siloxane			
Less than 0.1%	Colorant			