

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Date of issue: 15/11/2019 Version: 1.0

SECTION 1: Ide	entification of the subst	ance/mixture and of the	company/undertaking	
1.1. Product ider				
Product form		: Mixture		
Product name		: Tower Smartflex High Tech	Anilox Cleaner	
1.2. Relevant ide	ntified uses of the substar	nce or mixture and uses ad	vised against	
1.2.1. Relevant ide Main use category	ntified uses	: Professional use		
1.2.2. Uses advise No additional inform	•			
<b>1.3. Details of th</b> Tower Products Eur	e supplier of the safety dat rope B.V.	a sheet		
Rendementsweg 20	•			
3641 SL Mijdrecht -				
T +31 297 289 691				
	telephone number			
		Address	<b>F</b> anananan ay mumban	Comment
Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	
Skin corrosion/irritat Serious eye damag	tion, Category 1 e/eye irritation, Category 1 nents : see section 16	1272/2008 [CLP] H314 H318		
	hemical, human health and en burns and eye damage. Cause nts			
Labelling accordin Hazard pictograms	ng to Regulation (EC) No. 1272 (CLP)	/2008 [CLP]		
Signal word (CLP) Hazardous ingredie Hazard statements Precautionary state	(CLP)	: H314 - Causes severe skin P260 - Do not breathe vapo P280 - Wear protective clot P301+P330+P331 - IF SW/ P303+P361+P353 - IF ON Rinse skin with water or shi P304+P340 - IF INHALED: P305+P351+P338 - IF IN E	ours, mist, spray. hing, eye protection, face prot ALLOWED: Rinse mouth. Do f SKIN (or hair): Take off immed ower. Remove person to fresh air ai	ection. NOT induce vomiting. Jiately all contaminated clothing. nd keep comfortable for breathing. ater for several minutes. Remove
2.3. Other hazard No additional inform				
SECTION 3: Co 3.1. Substances	omposition/information	on ingredients		

3.1. Substances Not applicable

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#### 3.2. Mixtures Name **Product identifier** % **Classification according to** Regulation (EC) No. 1272/2008 [CLP] (CAS-No.) 1310-58-3 Acute Tox. 4 (Oral), H302 Potassium hydroxide 5 - 10 (EC-No.) 215-181-3 Skin Corr. 1A, H314 (EC Index-No.) 019-002-00-8 Met. Corr. 1, H290 (REACH-no) 01-2119487136-33 2-Aminoethanol (CAS-No.) 141-43-5 < 5 Acute Tox. 4 (Oral), H302 (EC-No.) 205-483-3 Acute Tox. 4 (Dermal), H312 (REACH-no) 01-2119486455-28 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314 STOT SE 3, H335 Aquatic Chronic 3, H412 Sodium Tripolyphosphate (CAS-No.) 7758-29-4 < 5 Eye Irrit. 2, H319 (EC-No.) 231-838-7 STOT SE 3, H335 (REACH-no) 01-2119430450-54 Aquatic Chronic 4, H413 2-ethylhexyl Sodium Sulphate (CAS-No.) 126-92-1 < 5 Skin Irrit. 2, H315 (EC-No.) 204-812-8 Eye Dam. 1, H318 (REACH-no) 01-2119971586-23 Sodium xylenesulphonate (CAS-No.) 1300-72-7 < 5 Eye Irrit. 2, H319 (EC-No.) 215-090-9 (REACH-no) 01-2119513350-56 **Specific concentration limits:** Name **Product identifier Specific concentration limits** (CAS-No.) 1310-58-3 ( 0.5 =<C < 100) Eye Irrit. 2, H319 Potassium hydroxide (EC-No.) 215-181-3 (0.5 =<C < 100) Skin Irrit. 2, H315 (EC Index-No.) 019-002-00-8 (2 =<C < 100) Skin Corr. 1B, H314 (REACH-no) 01-2119487136-33 (5 =<C < 100) Skin Corr. 1A, H314

#### Full text of H-statements: see section 16

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	: Call a physician immediately. Get medical advice/attention if you feel unwell. IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.	
First-aid measures after skin contact	: Rinse skin with water/shower. Wash skin with plenty of water. Take off contaminated clothing. Take off immediately all contaminated clothing. Call a physician immediately. If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention.	
First-aid measures after eye contact	: Rinse eyes with water as a precaution. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Call a physician immediately.	
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately. Call a poison center or a doctor if you feel unwell.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects after skin contact	: Burns.	
Symptoms/effects after eye contact	: Serious damage to eyes.	
Symptoms/effects after ingestion	: Burns.	
4.0 Institute the second secon		

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

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the substa Hazardous decomposition products in case of fire	ance or mixture : Toxic fumes may be released.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release measure	es
6.1. Personal precautions, protective equipr	nent and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions Avoid release to the environment.	
6.3. Methods and material for containment a	and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including a	ny incompatibilities
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep cool.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/persona	al protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls:	
Ensure good ventilation of the work station.	
Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

### Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and ch	emical properties	
Physical state	: Liquid	
Colour	: Colourless.	
Odour	: characteristic.	
Odour threshold	: No data available	
рН	: 12	
pH solution	: 13.1	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: Not applicable	
Freezing point	: No data available	

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Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.099 g/ml
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2 Other information	

**9.2. Other information** No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal) :	: Not classified
Acute toxicity (inhalation) :	: Not classified
2-Aminoethanol (141-43-5)	
LD50 oral rat	1089 mg/kg
LD50 dermal rabbit	2504 mg/kg
LC50 inhalation rat (mg/l)	1.4 mg/l/4h

Sodium xylenesulphonate (1300-72-7)	
LD50 oral	> 7000 mg/kg bodyweight
LD50 dermal	> 2000 mg/kg bodyweight

2-ethylhexyl Sodium Sulphate (126-92-1)	
LD50 oral rat	2840 mg/kg
LD50 dermal rat	> 2000 mg/kg

Potassium hydroxide (1310-58-3)	
LD50 oral	333 mg/kg bodyweight
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
	pH: 12

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Serious eye damage/irritation	: Causes serious eye damage.	
	pH: 12	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
2-Aminoethanol (141-43-5)	
LC50 fish 1	349 mg/l (Cyprinus carpio)
EC50 Daphnia 1	65 mg/l
EC50 72h algae (1)	1 mg/l (Pseudokirchneriella subcapitata)

Sodium xylenesulphonate (1300-72-7)	
EC50 other aquatic organisms 1	> 1020 mg/l
EC50 other aquatic organisms 2	IC50 algea (72 h) mg/l

Potassium hydroxide (1310-58-3)		
LC50 fish 1	80 mg/l	
12.2. Persistence and degradability		
No additional information available		
12.3. Bioaccumulative potential		
Potassium hydroxide (1310-58-3)		
Log Pow	-3.88	
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		

#### SECTION 13: Disposal considerations 13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN	
14.1. UN number	
UN-No. (ADR)	: UN 1719
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: CAUSTIC ALKALI LIQUID, N.O.S.
Transport document description (ADR)	: UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (Potassium hydroxide ; 2-Aminoethanol), 8, II, (E)
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 8
Danger labels (ADR)	: 8

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14.4. Packing group	
Packing group (ADR)	:
14.5. Environmental hazards	
Dangerous for the environment	: No
Other information	: No supplementary information available
14.6. Special precautions for user	
Overland transport	
Classification code (ADR)	: C5
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T11
Portable tank and bulk container special provisions (ADR)	: TP2, TP27
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Hazard identification number (Kemler No.)	: 80
Orange plates	<b>80</b> <b>1719</b>
Tunnel restriction code (ADR)	: E
EAC code	: 2R
44.7 Transport in bulk according to Appay	I of Marrial and the IPC Code

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable

## SECTION 15: Regulatory information

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

### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

#### 15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information		
Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
DNEL	Derived-No Effect Level	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	

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IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
РВТ	Persistent Bioaccumulative Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
SDS	Safety Data Sheet	
Full text of H- and EUH-statements:		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3	
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Met. Corr. 1	Corrosive to metals, Category 1	
Skin Corr. 1A	Skin corrosion/irritation, Category 1A	
Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H290	May be corrosive to metals.	
H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H412	Harmful to aquatic life with long lasting effects.	
H413	May cause long lasting harmful effects to aquatic life.	

SDS EU (REACH Annex II)

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