

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** HYDROTOUGH 100**Article number:** TB2005**1.2 Relevant identified uses of the substance or mixture and uses advised against****Product category:** Industrial. For professional use only.**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:** TYGRIS Industrial
Unit 31, Kyle Road Industrial Estate
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Email technical@tygrisindustrial.com**Further information obtainable from:** Technical Department**1.4 Emergency telephone number:** Tel +44 (0) 1294 311 066**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Physical hazards:** Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319**2.2. Label elements****Hazard statements:** H315: Causes skin irritation
H319: Causes serious eye irritation**Hazard pictograms:** GHS07: Exclamation mark**Signal word:** Warning**Precautionary statements:** P264: Wash ... thoroughly after handling
P280: Wear protective gloves/protective clothing/eye protection/face protection P302
+P352: IF ON SKIN: Wash with plenty of water/...
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove
contact lenses, if present and easy to do. Continue rinsing
P321: Specific treatment (see ... on this label)
P332+P313: If skin irritation occurs: Get medical advice/attention
P337+P313: If eye irritation persists: Get medical advice/attention
P362+P364: Take off contaminated clothing and wash it before reuse**2.3. Other hazards**

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Hazardous ingredients:
SODIUM ALKYL SULFATE

EC	CAS	Index number	EEC Classification	CLP Classification	Percent
-	68411-30-3	-	-	-	2 - 7%

CITRIC ACID

201-069-1	77-92-9	-	Xi; R36	Eye Irrit. 2, H319	1-5%
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1-METHOXY-2-PROPANOL, MONOPROPYLENE GLYCOL METHYL ETHER

203-539-1	107-98-2	603-064-00-3	R10 R67	Flam. Liq. 3, H226 STOT SE 3, H336	>= 4.975%
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BLEND OF ALCOHOL ESTERS

-	-	-	Xi; R41 Xi; R37	-	> 4.95%
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2-AMINOETHANOL, ETHANOLAMINE

205-483-3	141-43-5	603-030-00-8	Xn; R20/21/22 C; R34	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation: dust, mist), H332 Skin Corr. 1B, H314 STOT SE 3, H335	0.9 - 4.5%
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COCONUT DIETHANOLAMINE

-	8051-30-7	-	Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319	0.7 - 4.5%
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WATER

231-791-2	7732-18-5	-	-	-	0.01 - 1%
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DODECYLBENZENE SULPHONIC ACID - ISOPROPYLAMINE SALT

247-556-2	26264-05-1	-	Xn; R22 Xi; R41 Xi; R38	-	> 0.9%
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ALCOHOL ETHOXYLATE WITH 9MEO

-	68439-45-2	-	Xn; R22 Xi; R41	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318	> 0.8%
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DIETHANOLAMINE

-	-	-	Xn; R22 Xn; R48/22 Xi; R41 Xi; R38	-	0.01 - 0.75%
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2-METHOXYPROPANOL

216-455-5	1589-47-5	603-106-00-0	Xn; R22 Xi; R41 Xi; R38	Flam. Liq. 3, H226 Repr. 1B, H360D STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318	< 0.03%
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The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures
4.1. Description of first aid measures

General information:	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
Skin contact:	Remove contaminated clothing. Drench affected area with water for at least 15 minutes. If irritation develops, obtain medical attention. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
Eye contact:	Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
Ingestion:	Never give anything by mouth to an unconscious person. If conscious, give half a litre of water to drink immediately. Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing has stopped, apply artificial respiration. Keep warm. Get medical attention immediately. Assure fresh air breathing. Allow the victim to rest.

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

Symptoms/injuries:	Not expected to present a significant hazard under anticipated conditions of normal use.
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4.3. Indication of any immediate medical attention and special treatment needed

Medical attention and special treatment needed:	No additional information available.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Foam. Carbon dioxide. Dry powder. Water spray. Sand.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In case of fire, toxic incineration products may be released such as: Nitrogen Gases (NOx), Carbon Dioxide (CO₂), Carbon Monoxide (CO).

5.3. Advice for fire-fighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Evacuate area. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Avoid release to the environment. Ventilate area. Use protective clothing. Try to stop release. Keep people away from and upwind of spill/leak. Eliminate ignition sources.

For non-emergency personnel: Emergency procedures - Evacuate unnecessary personnel.

For emergency responders: Protective equipment - Equip cleanup crew with proper protection.
Emergency procedures - Ventilate area.

6.2. Environmental precautions

Environmental precautions: Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a suitable container. This material and its container must be disposed of in a safe way, and as per local legislation. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

Other sections: See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling requirements: Avoid spilling, skin and eye contact. Provide good ventilation in process area to prevent formation of vapour. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Do NOT allow to freeze. Keep container tightly closed. Store in original container. Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits:

1-METHOXY-2-PROPANOL, MONOPROPYLENE GLYCOL METHYL ETHER (107-98-2)

	Long-term exposure limit (8-hour TWA)	Short-term exposure limit (15-minute)
EU	IOELV 100 ppm, 375 mg/m ³	-
UK	WEL 100 ppm, 375 mg/m ³	WEL 150 ppm, 375 mg/m ³

2-AMINOETHANOL, ETHANOLAMINE (141-43-5)

EU	IOELV 1 ppm, 2.5 mg/m ³	IOELV 3 ppm, 7.6 mg/m ³
UK	WEL 1 ppm, 2.5 mg/m ³	WEL 3 ppm, 7.6 mg/m ³

WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective equipment:



Personal protective equipment:

Protective goggles. Gloves. Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses.

Respiratory protection:

Wear appropriate mask.

Other Protection:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State:	Liquid
Colour:	Yellow. Orange
Odour:	Distinct
Flash point:	≥ 65 °C
Flammability (solid, gas):	Non flammable
Relative density:	0.978 (at 20°C)
Solubility:	Miscible

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Chemical stability: Stable under normal conditions. Not established.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Conditions to avoid: Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Incompatible materials: Strong acids. Strong bases.

10.6. Hazardous decomposition products

Fire creates: Fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

2-AMINOETHANOL, ETHANOLAMINE (141-43-5)

ORAL	RAT	LD50	200 - 2000	mg/kg
DERMAL	RBT	LD50	400 - 2000	mg/kg
INHALATION	RAT	LD50	1 - 5	mg/l

ALCOHOL ETHOXYLATE WITH 9MEO (68439-45-2)

ORAL	RAT	LD50	> 200 - 2000	mg/kg
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Skin contact: Causes skin irritation.

Eye contact: Causes serious eye irritation.

SECTION 12: Ecological information
12.1. Toxicity
Hazardous ingredients:

2-AMINOETHANOL, ETHANOLAMINE (141-43-5)

FISHES 1	96H LC50	> 100	mg/l
OTHER AQUATIC ORGANISMS 1	96H LC50	> 10 - 100	mg/l
DAPHNIA 1	48H EC50	> 10 - 100	mg/l

12.2. Persistence and degradability

Persistence and degradability: Degradability : >97% (German Law). Not established.

12.3. Bioaccumulative potential
12.4. Mobility in soil
12.5. Results of PBT and vPvB assessment
12.6. Other adverse effects

Additional information: Avoid release to the environment.

SECTION 13: Disposal considerations
13.1. Waste treatment methods

Waste disposal recommendations: Confirm disposal procedures with environmental engineer and local regulations. Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

Transport class: This product does not require a classification for transport.

SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations: Contains no substances with Annex XVII restrictions
Contains no REACH candidate substance Contains no REACH Annex XIV substances.

SECTION 16: Other information

Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.
Phrases used in s.2 and s.3:	<p>Acute Tox. 4 (Dermal): Acute toxicity (dermal), Category 4 Acute Tox. 4 (Inhalation:dust,mist): Acute toxicity (inhalation:dust,mist) Category 4 Acute Tox. 4 (Oral): Acute toxicity (oral), Category 4 Eye Dam. 1: Serious eye damage/eye irritation, Category 1 Eye Irrit. 2: Serious eye damage/eye irritation, Category 2 Flam. Liq. 3: Flammable liquids, Category 3 Repr. 1B: Reproductive toxicity, Category 1B 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, Narcosis STOT SE 3: Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H226: Flammable liquid and vapour 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 H336: May cause drowsiness or dizziness H360D: May damage the unborn child R10: Flammable R20/21/22: Harmful by inhalation, in contact with skin and if swallowed R22: Harmful if swallowed R34: Causes burns R36: Irritating to eyes R36/38: Irritating to eyes and skin R37: Irritating to respiratory system R37/38: Irritating to respiratory system and skin R38: Irritating to skin R41: Risk of serious damage to eyes R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed R61: May cause harm to the unborn child R67: Vapours may cause drowsiness and dizziness C: Corrosive Xi: Irritant Xn: Harmful</p>
Legal disclaimer	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.