

**SAFETY DATA SHEET**

TFR AND POLISH

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Compilation date: 16/08/2010

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Revision No: 5

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

**Product name:** TFR AND POLISH

**Product code:** 316

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

**Use of substance / mixture:** PC35: Washing and cleaning products (including solvent based products).

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

**Company name:** Clover Chemicals Ltd

Clover House

Macclesfield Road

Whaley Bridge, High Peak

Derbyshire

SK23 7DQ

UK

**Tel:** +44 (0) 1663 733114

**Fax:** +44 (0) 1663 733115

**Email:** technical@cloverchemicals.com

**1.4. Emergency telephone number**

**Emergency tel:** NHS Direct 08454647

NHS24 0845242424

ROI 018092166

(office hours only)

**Section 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification under CLP:** Aquatic Acute 1: H400; Skin Corr. 1A: H314

**Most important adverse effects:** Causes severe skin burns and eye damage. Very toxic to aquatic life.

**2.2. Label elements**

**Label elements:**

**Hazard statements:** H314: Causes severe skin burns and eye damage.

H400: Very toxic to aquatic life.

**Signal words:** Danger

[cont...]

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**Hazard pictograms:** GHS05: Corrosion

GHS09: Environmental



**Precautionary statements:** P102: Keep out of reach of children.

P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P314: Get medical attention if you feel unwell.

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P333+313: If skin irritation or rash occurs: Get medical attention.

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists: Get medical attention.

P362: Take off contaminated clothing.

## 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

ISOTRIDECANOLETHOXYLATE,POLYMER(8 MOLE EO AVERAGE)

EINECS	CAS	PBT / WEL	CLP Classification	Percent
-	69011-36-5	-	Acute Tox. 4: H302; Eye Dam. 1: H318	1-10%

QUATERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16)ALKYL DIMETHYL CHLORIDES

270-325-2	68424-85-1	-	Met. Corr. 1: H290; Skin Corr. 1B: H314; Aquatic Acute 1: H400; Acute Tox. 4: H302	1-10%
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C9/11 A, >3-6 EO PREDOMINANTLY LINEAR (DID 21)

POLYMER	160875-66-1	-	Eye Dam. 1: H318	1-10%
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B-ALANINE,N-COCO ALKYL DERIVATIVES, SODIUM SALTS

271-795-1	68608-68-4	-	Eye Irrit. 2: H319	1-10%
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[cont...]

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SODIUM HYDROXIDE

215-185-5	1310-73-2	-	Skin Corr. 1A: H314	1-10%
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## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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

**Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

**Eye contact:** Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

**Immediate / special treatment:** Eye bathing equipment should be available on the premises.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Water.

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

**Exposure hazards:** Corrosive. In combustion emits toxic fumes.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

[cont...]

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## Section 6: Accidental release measures

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

**Personal precautions:** Notify the police and fire brigade immediately. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

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

**Clean-up procedures:** Transfer to a suitable container. Neutralise with dilute hydrochloric acid.

### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance. Avoid the formation or spread of mists in the air.

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

**Storage conditions:** Keep container tightly closed.

**Suitable packaging:** Stainless steel. Teflon. Polyethylene. Do not use aluminium containers.

### 7.3. Specific end use(s)

**Specific end use(s):** No data available.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Hazardous ingredients:**

**SODIUM HYDROXIDE**

**Workplace exposure limits:**

**Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	2 mg/m3	-	-

### DNEL/PNEC Values

**DNEL / PNEC** No data available.

### 8.2. Exposure controls

**Hand protection:** Impermeable gloves. Gloves (alkali-resistant).

**Eye protection:** Tightly fitting safety goggles. Ensure eye bath is to hand.

**Skin protection:** Alkali resistant protective clothing.

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## Section 9: Physical and chemical properties

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

**State:** Liquid

**Colour:** Off-white

**Odour:** Characteristic odour

**Evaporation rate:** Moderate

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Soluble

**Viscosity:** Non-viscous

**Boiling point/range°C:** 100

**Melting point/range°C:** 0

**Flammability limits %: lower:** Not applicable.

**upper:** Not applicable.

**Flash point°C:** Not applicable.

**Part.coeff. n-octanol/water:** Not applicable.

**Autoflammability°C:** Not applicable.

**Vapour pressure:** Not applicable.

**Relative density:** 1.05 - 1.15

**pH:** 13.4

**VOC g/l:** 0

### 9.2. Other information

**Other information:** No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.

### 10.4. Conditions to avoid

### 10.5. Incompatible materials

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

[cont...]

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## Hazardous ingredients:

### ISOTRIDECANOLETHOXYLATE,POLYMER(8 MOLE EO AVERAGE)

ORAL	RAT	LD50	500-2000	mg/kg
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### QUATERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16)ALKYL DIMETHYL CHLORIDES

ORAL	RAT	LD50	795	mg/kg
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### C9/11 A, >3-6 EO PREDOMINANTLY LINEAR (DID 21)

ORL	RAT	LD50	>2000	mg/kg
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### B-ALANINE,N-COCO ALKYL DERIVATIVES, SODIUM SALTS

ORL	-	LD50	>5000	mg/kg
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### SODIUM HYDROXIDE

IPR	MUS	LD50	40	mg/kg
ORL	RBT	LDLO	500	mg/kg

## Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

## Symptoms / routes of exposure

**Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

**Eye contact:** Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

## Section 12: Ecological information

### 12.1. Toxicity

## Hazardous ingredients:

### ISOTRIDECANOLETHOXYLATE,POLYMER(8 MOLE EO AVERAGE)

FISH	96H LC50	1-10	mg/l
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## QUATERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16)ALKYL DIMETHYL CHLORIDES

Daphnia magna	48H EC50	.016	mg/l
GREEN ALGA (Selenastrum capricornutum)	72H ErC50	.026	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	.85	mg/l

## C9/11 A, >3-6 EO PREDOMINANTLY LINEAR (DID 21)

Scenedesmus	48H EC50	10 - 100	mg/l
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## B-ALANINE,N-COCO ALKYL DERIVATIVES, SODIUM SALTS

-	48H EC50	18	mg/l
-	48H EC50	97.5	mg/l

### 12.2. Persistence and degradability

**Persistence and degradability:** Biodegradable. The surfactants contained in this preparation comply with the biodegradability criteria as laid down in regulation (EC) No.648/2004 on detergents.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

### 12.4. Mobility in soil

**Mobility:** Soluble in water.

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

**Other adverse effects:** Negligible ecotoxicity.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal of packaging:** Dispose of as normal industrial waste.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

### 14.1. UN number

**UN number:** UN1760

### 14.2. UN proper shipping name

**Shipping name:** CORROSIVE LIQUID, N.O.S.  
(( SODIUM HYDROXIDE ))

[cont...]

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## 14.3. Transport hazard class(es)

Transport class: 8

## 14.4. Packing group

Packing group: III

## 14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

## 14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

## Section 15: Regulatory information

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

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

**Phrases used in s.2 and s.3:** 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.

H400: Very toxic to aquatic life.

**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.