

## 1. Identification of the substance/preparation and of the company/undertaking

**Product name** Syntilo R  
**SDS #** UK-7131  
**Product Use** Metalworking fluid - soluble.  
**Supplier** Castrol (U.K.) Limited  
Wakefield House  
Pipers Way  
Swindon  
Wiltshire, SN3 1RE  
United Kingdom  
  
Tel.: +44 (0)1793 512712  
Fax.: +44 (0)1793 486083  
  
**EMERGENCY TELEPHONE NUMBER** **+44 (0)1793 512712**

## 2. Composition/information on ingredients

Highly refined mineral oil, emulsifiers and additives.

Chemical name	CAS no.	%	EINECS / ELINCS.	Classification
Rape diethanolamide	68187-80-4	1 - 10	269-125-8	Xi; R38, 41
POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-(CARBOXYMETHYL)-.OMEGA.-(DODECYLOXY)-	27306-90-7	1 - 10		Xi; R36/38
Ethylene glycol	107-21-1	1 - 10	203-473-3	Xn; R22
Monoethanolamine tallate	68132-47-8	1 - 10	268-640-5	Xi; R36/38
(Z)-DOCOS-13-ENOIC ACID, COMPOUND WITH 2-AMINOETHANOL (1:1)	84099-98-9	1 - 10	282-078-8	Xi; R36/38
Fatty alcohols C9, ethoxylated, propoxylated, carboxymethylated		1 - 10		Xi; R36/38
2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether	112-34-5	0.98-1	203-961-6	Xi; R36
1-[2-(allyloxy)-2-(2,4-dichlorophenyl)ethyl]-1H-imidazole	35554-44-0	0.1 - 1	252-615-0	Xn; R20/22 Xi; R41 N; R50/53

See Section 16 for the full text of the R Phrases declared above

Occupational Exposure Limit(s), if available, are listed in Section 8

## 3. Hazards identification

This preparation is classified as dangerous according to Directive 1999/45/EC as amended and adapted.  
Not classified as dangerous when diluted below 40%.

**Physical/chemical Hazards** Not classified as dangerous.

**Human health hazards** Irritating to eyes.

**Environmental hazards** Not classified as dangerous.

### Effects and symptoms

**Eyes** Causes eye irritation.  
**Skin** Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.  
**Inhalation** Vapors and aerosol can produce mucous membrane, nose and throat irritation  
**Ingestion** Ingestion may cause gastrointestinal irritation and diarrhoea.

## 4. First-aid measures

**Eye Contact** In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention immediately.

**Skin contact** Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.

**Inhalation** If inhaled, remove to fresh air. Get medical attention if symptoms appear.

**Ingestion** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

## 5. Fire-fighting measures

### Extinguishing Media

<b>Suitable</b>	In case of fire, use water fog, foam, dry chemical or CO2 extinguisher or spray.
<b>Not Suitable</b>	Do not use water jet.
<b>Hazardous decomposition products</b>	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...). Some metallic oxides.
<b>Unusual fire/explosion Hazards</b>	This material is not explosive as defined by established regulatory criteria.
<b>Special fire-fighting procedures</b>	None identified.
<b>Protection of fire-fighters</b>	Fire fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

## 6. Accidental release measures

<b>Personal Precautions</b>	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).
<b>Environmental precautions and cleanup methods</b>	If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.
<b>Personal Protection in Case of a Large Spill</b>	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

## 7. Handling and storage

<b>Handling</b>	Avoid contact with eyes. Avoid breathing vapour or mist. Avoid prolonged or repeated contact with skin. Avoid contact of spilled material and runoff with soil and surface waterways. Wash thoroughly after handling.
<b>Storage</b>	Keep container tightly closed. Protect from freezing. Store away from direct sunlight.

## 8. Exposure controls/personal protection

<b>Ingredient Name</b>	<b>Occupational Exposure Limits</b>
Ethylene glycol	<b>EH40-OES (United Kingdom (UK), 2001). Notes: OES</b> STEL: 125 mg/m <sup>3</sup> Form: Vapour TWA: 10 mg/m <sup>3</sup> Form: Particulate TWA: 60 mg/m <sup>3</sup> Form: Vapour
Highly refined mineral oil	<b>EH40-OES (United Kingdom (UK)).</b> TWA: 5 mg/m <sup>3</sup> Form: Oil mist, mineral  STEL: 10 mg/m <sup>3</sup> Form: Oil mist, mineral
<b>Control Measures</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.
<b>Hygiene measures</b>	After handling, always wash hands thoroughly with soap and water
<b>Personal protective equipment</b>	
<b>Respiratory system</b>	None required; however, use of adequate ventilation is good industrial practice.
<b>Skin and body</b>	Wear protective clothing if prolonged or repeated contact is likely.
<b>Hands</b>	Wear protective gloves if prolonged or repeated contact is likely.
<b>Eyes</b>	Avoid contact with eyes. Safety glasses with side shield or chemical goggles

## 9. Physical and chemical properties

<b>Flash point</b>	>100 °C (CLOSED CUP)
<b>Pour Point</b>	<0 °C
<b>Colour</b>	Clear. Yellowish.
<b>Odour</b>	Amine. (Slight.)
<b>Odour threshold</b>	Not available.
<b>Physical state</b>	Liquid.
<b>Boiling point / range</b>	>100 °C
<b>Density</b>	1 g/cm <sup>3</sup> at 20 °C
<b>Solubility</b>	Emulsifies in water.

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	<b>Language</b>	( ENGLISH )

pH	9.3 (Basic.) at 3%
Dispersion Properties	Easily dispersed in cold water, hot water.

## 10. Stability and reactivity

Conditions to Avoid	High temperatures.
Incompatibility with Various Substances	Reactive with oxidizing agents. Slightly reactive to reactive with acids.
Hazardous Polymerization	Will not occur.

## 11. Toxicological information

### Chronic toxicity

Carcinogenic effects	No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (IARC) or the European Commission (EC).
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## 12. Ecological information

### Ecotoxicity

<u>Ingredient Name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Persistence/degradability	Inherently biodegradable.		
Mobility	Liquid. Emulsifies in water.		
Environmental hazards	Not classified as dangerous.		

## 13. Disposal considerations

Disposal Consideration / Waste information	Avoid contact of spilled material and runoff with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Comply with all federal, state and local laws pertaining to waste management.
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Hazardous Waste	This product is listed as Hazardous by the EU Directive on hazardous waste. Dispose of according to all national and local applicable regulations.
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## 14. Transport information

Not classified as hazardous for transport (ADR, RID, UN , IMO, IATA/ICAO).

## 15. Regulatory information

### Label Requirements

#### Hazard symbol(s)



#### Indication of Danger

Irritant

#### Risk Phrases

R36- Irritating to eyes.

#### Safety Phrases

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

#### EU Regulations

Classification and labeling have been performed according to EU directives 1999/45/EC and 67/548/EEC as amended and adapted.

### Other Regulations

#### Inventories

AUSTRALIAN INVENTORY (AICS): Not determined

CANADA INVENTORY (DSL): Not determined.

CHINA INVENTORY (IECS): Not determined.

EC INVENTORY (EINECS): In compliance.

JAPAN INVENTORY (ENCS): Not determined.

KOREA INVENTORY (ECL): Not determined.

PHILIPPINE INVENTORY (PICCS): Not determined.

## 16. Other information

### Full text of R-phrases appearing in section 2

R20/22- Harmful by inhalation and if swallowed.  
R22- Harmful if swallowed.  
R36- Irritating to eyes.  
R36/38- Irritating to eyes and skin.  
R38- Irritating to skin.  
R41- Risk of serious damage to eyes.  
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### HISTORY

**Date of issue** 05/08/2002.  
**Date of previous issue** 05/08/2002.  
**Prepared by** Product Stewardship

### Notice to Reader

*The data and advice given apply when the product is sold for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. You should not use the product other than for the stated application or applications without seeking advice from us.*

*If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.*

*If you are an employer, it is your duty to tell your employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken*

*Further copies of this Safety Data Sheet may be obtained from Castrol.*

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