



# SAFETY DATA SHEET

Revision Date: 08-26-2015

Version 2

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1.

#### Product identifier

**Product Code(s):** 93020000-M  
**Product Code(s) (DE):** - 75470000  
**Product Code(s) (IT):** - RUVETBS  
**Product Code(s) (ES):** - 270020  
**Product Name** RUST VETO TB  
**Product Registration number**  
**Denmark** -  
**Norway** -  
**Sweden** -  
**EC #**  
**Pure substance/preparation** Contains Sulfonic acids, petroleum, sodium salts, Alcohols, C12-14, ethoxylated

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

**Recommended use** Rust Preventative, Emulsifiable fluid

**Uses advised against** Any other purpose.

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

#### **Manufacturer, Importer, Supplier**

Houghton plc  
Beacon Road  
Trafford Park  
Manchester  
M17 1AF  
Tel: +44 (0)161 874 5000  
E-mail: MSDS@uk.houghtonglobal.com

Houghton S.A.S.  
604 Bd Albert Camus,  
BP 60041  
69652 Villefranche sur saone  
France  
Tel: (0) 4 74 65 65 00  
Fax: (0) 4 74 60 08 44

Houghton Iberica S.A.  
Pol. Ind. Can Salvatella-TorreMateu  
08210 Barbera del Valles  
Barcelona  
SPAIN  
Tel: +(34 93) 718 85 00  
Fax: +(34 93) 718 93 00  
msds.es@houghtonintl.com

Houghton Deutschland GmbH  
Giselherstr. 57. D-44319.  
Dortmund  
Deutschland  
Tel: +49 (0) 231/9277-0.  
Fax: +49 (0)231/9277-120  
MSDS@houghtonintl.com

Ragione Sociale: Houghton Italia S.p.A.  
Indirizzo: Via Postiglione, 30  
10024 Moncalieri (TO)  
ITALY  
Telefono: (+39) 011 6475811.  
Fax: (+39) 0116472778.  
ITTN-MSDS@houghtonintl.com

Houghton Benelux  
Meerpaal 12 A. NL - 4904.SK Oosterhout.  
Telefoon: +31 162458400  
Fax: +31 162 458205  
Email: customerservice.nl@houghtonintl.com

Houghton Sverige AB  
La Cours Gata 4  
252 31 Helsingborg  
Sverige  
Tel: +46 42 29 55 10  
E-mail: info.se@houghtonintl.com

Houghton Polska SP z.o.o  
UlKapelanka 17  
30-347 Krakow  
Poland  
+48 122665240  
info@houghton.com.pl

HOUGHTON EUROPE N.V Sivuliike Suomessa  
Lautamiehentie 3  
02770 ESPOO  
Puh. 00-8596 395  
Fax. 09-8596 396  
LY: 1957249-8  
E-mail: info@houghton.fi

Houghton Danmark A/S  
Energivej 3  
DK-4180 Sorø  
Danmark  
Tel: +45 45 85 23 00  
E-mail: houghton@houghton.dk

Mento AS  
Kontinentalveien  
Postboks 44  
4098 Tananger  
Norway  
Tel: +47 51 64 86 00  
www.Mento.no

Houghton Ukraine Ltd  
Ukraine, Kiev 04213  
13, Prirrechnaya St.  
Phone: +38 (044) 360-10-24  
Fax: +38 (044) 426-27-76

Houghton CZ s.r.o.  
Bartošova 3  
602 00 Brno  
Czech Republic  
Phone: +420 542 213 332  
office@houghton.cz

Houghton Romania  
2A, Jiului Street  
4th Floor / Room 2  
013219 Bucharest  
Phone: +40 21 667 06 15  
Fax: +40 21 667 09 70

Houghton Kimya San. A.Ş  
Kosuyolu Mah  
Asma Dall Sok  
No: 1434718 Kadıköy  
İstanbul  
Türkiye  
Phone Number: +90 216 325 15 15

#### 1.4. Emergency telephone number

3E Company: (+)1 760 476 3961 ( Code 333938 )

<b>Austria</b>	Notfall-Telefonnummer +43 (0) 1 406 4343
<b>Belgium</b>	Telefoonnummer voor +32 (0)70 245 245
<b>Bulgaria</b>	Телефон за спешни случаи +359 2 9154 409
<b>Croatia</b>	Telefon za izvanredna stanja +385 1 2348 342
<b>Czech Republic</b>	Telefonní číslo pro naléhavé situace +420 224 919 293
<b>Denmark</b>	Ring til Giftlinjen på +45 82 12 12 12
<b>Estonia</b>	Mürgistusteabekeskuse +372 626 93 90
<b>Finland</b>	Hätäpuhelinnumero +358 09 471 977
<b>France</b>	Numéro d'appel d'urgence +33 (0)1 45 42 5959
<b>Hungary</b>	Díjmentesen hívható zöld szám +36 80 20 11 99
<b>Ireland</b>	Emergency telephone number +353 01 809 2166
<b>Latvia</b>	Valsts Toksikoloģijas centra Saindēšanās un zāļu informācijas centrs +371 6704 2473
<b>Lithuania</b>	Neatidėliotina informacija apsinuodijus +370 5 236 20 52
<b>Netherlands</b>	Telefoonnummer voor +31 30 274 88 88
<b>Norway</b>	Nødnummer +47 22 59 13 00
<b>Poland</b>	112
<b>Portugal</b>	Número de telefone de emergência +351 808 250 143
<b>Romania</b>	Număr de telefon care poate fi apelat în caz de urgență +021 318 36 06 (08:00-15:00)
<b>Slovakia</b>	Národné toxikologické informačné centrum +421 2 5477 4166
<b>Spain</b>	Número de teléfono de emergencia +34 91 562 0420
<b>Sweden</b>	Telefonnummer för nödsituationer +46 08 33 12 31 (09:00-17:00)
<b>Switzerland</b>	145; 041 44 251 51 51 (www.toxi.ch)
<b>Turkey</b>	(+1 760 476 3959 ( Code 333938 )

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

<b>Skin corrosion/irritation</b>	Category 2 - (H315)
<b>Serious eye damage/eye irritation</b>	Category 1 - (H318)
<b>Chronic aquatic toxicity</b>	Category 3 - (H412)

### 2.2. Label Elements

Contains Sulfonic acids, petroleum, sodium salts, Alcohols, C12-14, ethoxylated

**Signal Word**

DANGER

**Hazard Statements**

H315 - Causes skin irritation

H318 - Causes serious eye damage

H412 - Harmful to aquatic life with long lasting effects

**Precautionary Statements - EU (§28, 1272/2008)**

P280 - Wear protective gloves and eye/face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P273 - Avoid release to the environment

**2.3. Other hazards**

No information available

- 2.040002 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 2.280002 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 57.855002 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 57.855002 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 57.855002 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1. Substances / 3.2. Mixtures**

This product is a mixture. Health hazard information is based on its ingredients

Chemical Name	EC-No	CAS-No	Weight %	Classification (Reg. 1272/2008)	REACH Registration Number
Benzene, mono-C10-13-alkyl derivs., distn. residues	284-660-7	84961-70-6	25% - 50%	Asp. Tox. 1 (H304)	01-2119485843-26-xxx x
Sulfonic acids, petroleum, sodium salts	271-781-5	68608-26-4	2.5% - 10%	Eye Dam. 1 (H318)	01-2119527859-22-xxx x
Alcohols, C12-14, ethoxylated	500-213-3	68439-50-9	2.5% - 10%	Eye Dam. 1 (H318) Aquatic Acute 1 (H400)	01-2119487984-16-xxx x
Highly refined base oil (Viscosity >20.5 cSt @40°C)	-	-	2.5% - 10%	**	-
2,2',2''-Nitrilotriethanol	203-049-8	102-71-6	1% - 2.5%	**	01-2119486482-31-xxx x
2-Aminoethanol	205-483-3	141-43-5	1% - 2.5%	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Corr. 1B (H314) Acute Tox. 4 (H332) STOT SE 3 (H335) C >= 5%.	01-2119486455-28-xxx x
Neutralised 2-Aminoethanol	205-483-3	141-43-5*	1% - 2.5%	Acute Tox. 4 (H302) Acute Tox. 4 (H312)	01-2119486455-28-xxx x

				Acute Tox. 4 (H332)	
2,6-Di-tert-butyl-p-cresol	204-881-4	128-37-0	0% - 1%	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	01-2119565113-46-xxx x 01-2119480433-40-xxx x 01-2119555270-46-xxx x

**Additional information**

See Section 15 for additional information on base oils.

\*\* Substances for which there are Community workplace exposure limits

**Full text of H- and EUH-phrases: see section 16**

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first-aid measures

<b>General advice</b>	Do not get in eyes, on skin, or on clothing. Immediate medical attention is required.
<b>Inhalation</b>	Move to fresh air.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.
<b>Eye contact</b>	Keep eye wide open while rinsing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Do not rub affected area. Seek immediate medical attention/advice.
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

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

**Main Symptoms** Redness, Itching, Rash, Eye damage/irritation

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

**Notes to physician** Treat symptomatically.

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment: Use CO<sub>2</sub>, dry chemical, or foam, Water spray or fog

#### **Extinguishing media which shall not be used for safety reasons**

None

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

#### **Special Hazard**

Water runoff can cause environmental damage.

#### **Hazardous Decomposition Products**

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None under normal use

### 5.3. Advice for firefighters

#### **Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

#### **Advice for non-emergency personnel**

Evacuate personnel to safe areas. Material can create slippery conditions.

**Advice for emergency responders** For personal protection see section 8.

### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dike to collect large liquid spills.

### 6.4. Reference to other sections

See Section 8/12/13 for additional information

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

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

#### **Technical measures/Storage conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep at temperatures between 5 and 40 °C.

#### **Recommended Shelf Life**

Shelf life 12 months.

#### **Incompatible Materials**

Strong oxidizing agents, Strong acids, Strong bases

### 7.3. Specific end uses

#### **Specific use(s)**

Rust Preventative, Emulsifiable fluid

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

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Chemical Name	European Union	United Kingdom	France	Spain
Highly refined base oil (Viscosity >20.5 cSt @40°C)				VLA-EC: 10 mg/m <sup>3</sup> VLA-ED: 5 mg/m <sup>3</sup>
2,2',2''-Nitrilotriethanol				TWA: 5 mg/m <sup>3</sup>
2-Aminoethanol	TWA: 1 ppm TWA: 2.5 mg/m <sup>3</sup> Skin	STEL: 3 ppm STEL: 7.6 mg/m <sup>3</sup> TWA: 1 ppm TWA: 2.5 mg/m <sup>3</sup> Skin	TWA: 1 ppm TWA: 2.5 mg/m <sup>3</sup> STEL: 3 ppm STEL: 7.6 mg/m <sup>3</sup>	S* STEL: 3 ppm STEL: 7.5 mg/m <sup>3</sup> TWA: 1 ppm TWA: 2.5 mg/m <sup>3</sup>
Neutralised 2-Aminoethanol	TWA: 1 ppm TWA: 2.5 mg/m <sup>3</sup> Skin	STEL: 3 ppm STEL: 7.6 mg/m <sup>3</sup> TWA: 1 ppm TWA: 2.5 mg/m <sup>3</sup> Skin	VME: 1 ppm VME: 2.5 mg/m <sup>3</sup> VLCT: 3 ppm VLCT: 7.6 mg/m <sup>3</sup>	S* STEL: 3 ppm STEL: 7.5 mg/m <sup>3</sup> TWA: 1 ppm TWA: 2.5 mg/m <sup>3</sup>
2,6-Di-tert-butyl-p-cresol		STEL: 30 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	VME: 10 mg/m <sup>3</sup>	

Chemical Name	Germany	Italy	Portugal	The Netherlands
2,2',2''-Nitrilotriethanol	MAK: 5 mg/m <sup>3</sup> Ceiling / Peak: 20 mg/m <sup>3</sup>		TWA: 5 mg/m <sup>3</sup>	
2-Aminoethanol	TWA: 2 ppm TWA: 5.1 mg/m <sup>3</sup> Ceiling / Peak: 4 ppm Ceiling / Peak: 10.2 mg/m <sup>3</sup>	TWA: 1 ppm TWA: 2.5 mg/m <sup>3</sup> STEL: 3 ppm STEL: 7.6 mg/m <sup>3</sup> Skin	STEL: 6 ppm TWA: 3 ppm	Skin STEL: 7.6 mg/m <sup>3</sup> TWA: 2.5 mg/m <sup>3</sup>
Neutralised 2-Aminoethanol	MAK: 2 ppm MAK: 5.1 mg/m <sup>3</sup> Ceiling / Peak: 4 ppm Ceiling / Peak: 10.2 mg/m <sup>3</sup> TWA: 2 ppm TWA: 5.1 mg/m <sup>3</sup>	TWA: 1 ppm TWA: 2.5 mg/m <sup>3</sup> STEL: 3 ppm STEL: 7.6 mg/m <sup>3</sup> Skin	STEL: 6 ppm TWA: 3 ppm	Skin STEL: 7.6 mg/m <sup>3</sup> TWA: 2.5 mg/m <sup>3</sup>
2,6-Di-tert-butyl-p-cresol	MAK: 20 mg/m <sup>3</sup> Ceiling / Peak: 40 mg/m <sup>3</sup> Skin		TWA: 2 mg/m <sup>3</sup>	

Chemical Name	Austria	Switzerland	Poland	Ireland
Highly refined base oil (Viscosity >20.5 cSt @40°C)				STEL: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> (Mist)
2,2',2''-Nitrilotriethanol	STEL 1.6 ppm STEL 10 mg/m <sup>3</sup> MAK: 0.8 ppm MAK: 5 mg/m <sup>3</sup>			TWA: 5 mg/m <sup>3</sup>
2-Aminoethanol	Skin STEL 3 ppm STEL 7.6 mg/m <sup>3</sup> TWA: 1 ppm TWA: 2.5 mg/m <sup>3</sup>	STEL: 4 ppm STEL: 10 mg/m <sup>3</sup> TWA: 2 ppm TWA: 5 mg/m <sup>3</sup>	STEL: 7.5 mg/m <sup>3</sup> TWA: 2.5 mg/m <sup>3</sup>	TWA: 1 ppm TWA: 2.5 mg/m <sup>3</sup> STEL: 3 ppm STEL: 7.6 mg/m <sup>3</sup> Skin
Neutralised 2-Aminoethanol	Skin STEL 3 ppm STEL 7.6 mg/m <sup>3</sup> MAK: 1 ppm MAK: 2.5 mg/m <sup>3</sup>	STEL: 4 ppm STEL: 10 mg/m <sup>3</sup> MAK: 2 ppm MAK: 5 mg/m <sup>3</sup>	NDSCh: 7.5 mg/m <sup>3</sup> NDS: 2.5 mg/m <sup>3</sup>	TWA: 3 ppm TWA: 8 mg/m <sup>3</sup> STEL: 6 ppm STEL: 15 mg/m <sup>3</sup>
2,6-Di-tert-butyl-p-cresol	MAK: 10 mg/m <sup>3</sup>	MAK: 10 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup>

Chemical Name	Finland	Denmark	Norway	Sweden
Highly refined base oil (Viscosity >20.5 cSt @40°C)	TWA: 5mg/m <sup>3</sup> (Öljysumu)	TWA: 1 mg/m <sup>3</sup> (Olietåge)	TWA: 1 mg/m <sup>3</sup> (Oljetåke)	LLV: 1 mg/m <sup>3</sup> STV: 3 mg/m <sup>3</sup> (Oljedimma)
2,2',2''-Nitrilotriethanol	TWA: 5 ppm	TWA: 0.5 ppm TWA: 3.1 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	LLV: 5 mg/m <sup>3</sup> STV: 10 mg/m <sup>3</sup>
2-Aminoethanol	TWA: 1 ppm TWA: 2.5 mg/m <sup>3</sup> STEL: 3 ppm STEL: 7.6 mg/m <sup>3</sup>	TWA: 1 ppm TWA: 2.5 mg/m <sup>3</sup> Skin	TWA: 1 ppm TWA: 2.5 mg/m <sup>3</sup> Skin STEL: 2 ppm STEL: 5	LLV: 3 ppm LLV: 8 mg/m <sup>3</sup> H STV: 6 ppm

	Skin		mg/m <sup>3</sup>	STV: 15 mg/m <sup>3</sup>
Neutralised 2-Aminoethanol	TWA: 1 ppm TWA: 2.5 mg/m <sup>3</sup> STEL: 3 ppm STEL: 7.6 mg/m <sup>3</sup> Skin	TWA: 1 ppm TWA: 2.5 mg/m <sup>3</sup> Skin	TWA: 1 ppm TWA: 2.5 mg/m <sup>3</sup> Skin STEL: 2 ppm STEL: 5 mg/m <sup>3</sup>	LLV: 3 ppm LLV: 8 mg/m <sup>3</sup> H STV: 6 ppm STV: 15 mg/m <sup>3</sup>
2,6-Di-tert-butyl-p-cresol	TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>		

Chemical Name	Czech Republic	Hungary	Bulgaria	Romania
2,2',2''-Nitrilotriethanol	Ceiling: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>		TWA: 3.0 mg/m <sup>3</sup>	
2-Aminoethanol	Ceiling: 7.5 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> Skin	STEL: 7.6 mg/m <sup>3</sup> TWA: 2.5 mg/m <sup>3</sup> Skin	STEL: 7.6 mg/m <sup>3</sup> TWA: 2.5 mg/m <sup>3</sup> Skin	TWA: 1 ppm TWA: 2.5 mg/m <sup>3</sup> STEL: 3 ppm STEL: 7.6 mg/m <sup>3</sup> Skin
Neutralised 2-Aminoethanol	Ceiling: 7.5 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> Skin	STEL: 7.6 mg/m <sup>3</sup> TWA: 2.5 mg/m <sup>3</sup> Skin	STEL: 15.0 mg/m <sup>3</sup> TWA: 8.0 mg/m <sup>3</sup>	TWA: 1 ppm TWA: 2.5 mg/m <sup>3</sup> STEL: 3 ppm STEL: 7.6 mg/m <sup>3</sup> Skin
2,6-Di-tert-butyl-p-cresol			STEL: 50.0 mg/m <sup>3</sup> TWA: 10.0 mg/m <sup>3</sup>	

#### Workers Systemic toxicity

Chemical Name	Long term - Oral exposure	Long term - Dermal exposure	Long term - Inhalation exposure	Short term - Oral Exposure	Short term - Dermal exposure	Short term - Inhalation exposure
Benzene, mono-C10-13-alkyl derivs., distn. residues		8.6 mg/kg				
Alcohols, C12-14, ethoxylated		2080 mg/kg	294 mg/m <sup>3</sup>			
2,6-Di-tert-butyl-p-cresol		8.3 mg/kg	5.8 mg/m <sup>3</sup>			

#### Workers Local effects

#### Consumers Systemic toxicity

Chemical Name	Long term - Oral exposure	Long term - Dermal exposure	Long term - Inhalation exposure	Short term - Oral Exposure	Short term - Dermal exposure	Short term - Inhalation exposure
Alcohols, C12-14, ethoxylated	25 mg/kg	1250 mg/kg	87 mg/m <sup>3</sup>			
2,6-Di-tert-butyl-p-cresol		5 mg/kg	1.74 mg/m <sup>3</sup>			

#### Consumers Local effects

#### Predicted No Effect Concentration (PNEC)

Chemical Name	Fresh water	Sea water	Fresh water sediment	Sea sediment	Soil
Benzene, mono-C10-13-alkyl derivs., distn. residues	0.000075 mg/L	0.000075 mg/L	1761 mg/kg	1761 mg/kg	
Alcohols, C12-14, ethoxylated	0.0437 mg/L	0.0437 mg/L	31 mg/kg	31 mg/kg	1 mg/kg
2,6-Di-tert-butyl-p-cresol	1.29 mg/kg	0.0004 mg/L	1.29 mg/kg		1.04 mg/kg

## 8.2. Exposure controls

### Engineering Measures

Ensure adequate ventilation, especially in confined areas. Eyewash stations.

**Personal protective equipment****Eye Protection**  
**Hand Protection**

Eye protection must conform to standard EN 166. Tightly fitting safety goggles.  
Protective gloves complying with EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

**Skin and body protection**  
**Respiratory protection**

Long sleeved clothing.  
No special protective equipment required. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

**Hygiene measures**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended.

**Environmental Exposure Controls**  
**Thermal hazards**

Do not allow material to contaminate ground water system.  
None under normal use conditions

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

<b>Physical state @20°C</b>	liquid	<b>Appearance</b>	clear , amber
<b>Odor</b>	Mild	<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Note</u>
<b>pH</b>	9.8	@3%
<b>Melting Point / Freezing Point</b>	No information available	
<b>Boiling point/boiling range</b>	No information available	
<b>Flash point</b>	> 100 °C / > 212 °F	ASTM D 92
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limits in Air</b>		
<b>upper flammability limit</b>	No information available	
<b>Lower flammability limit</b>	No information available	
<b>Vapor pressure</b>	No information available	
<b>Vapor density</b>	No information available	
<b>Relative density</b>	0.94	g/cm3 @15.5°C
<b>Solubility(ies)</b>	Emulsifies	
<b>Partition coefficient: n-octanol/water</b>	Not Applicable	
<b>Autoignition temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available	
<b>Viscosity, kinematic</b>	33 mm2/s @ 40 °C	ASTM D 445
<b>Explosive properties</b>	Not Applicable	
<b>Oxidizing Properties</b>	Not Applicable	

**9.2 Other information**

<b>Viscosity, kinematic (100°C)</b>	No information available
<b>Pour point</b>	No information available
<b>VOC Content (ASTM E-1868-10)</b>	No information available
<b>VOC Content</b>	No information available

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

None under normal use conditions

**10.2. Chemical stability**



Stable under normal conditions

### 10.3. Possibility of hazardous reactions

None under normal use conditions

### 10.4. Conditions to avoid

Do not freeze

### 10.5. Incompatible Materials

Strong oxidizing agents, Strong acids, Strong bases

### 10.6. Hazardous decomposition products

None under normal use conditions

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Product Information - Principle Routes of Exposure

<b>Inhalation</b>	None known
<b>Eye contact</b>	May result in permanent damage including blindness
<b>Skin contact</b>	Irritating to skin
<b>Ingestion</b>	None known

#### Acute toxicity - Product Information

Product does not present an acute toxicity hazard based on known information.

#### Acute toxicity - Component Information

Chemical Name	LD50 Oral (Rat)	LD50 Dermal (Rat/Rabbit)	LC50 Inhalation
Benzene, mono-C10-13-alkyl derivs., distn. residues	>2000 mg/kg ( Rat )	>3600 mg/kg	
Sulfonic acids, petroleum, sodium salts	5000 mg/kg ( Rat )		
Alcohols, C12-14, ethoxylated	>2000 mg/kg ( Rat )	>2000 mg/kg ( Rabbit )	
Highly refined base oil (Viscosity >20.5 cSt @40°C)	>2000 mg/kg	>2000 mg/kg	
2,2',2''-Nitrilotriethanol		> 16 mL/kg ( Rat ) > 2000 mg/kg ( Rabbit )	
2-Aminoethanol	1720 mg/kg ( Rat )	= 1 mL/kg ( Rabbit ) = 1025 mg/kg ( Rabbit )	
Neutralised 2-Aminoethanol	1720 mg/kg ( Rat )		
2,6-Di-tert-butyl-p-cresol	5000 mg/kg ( Rat )	5000 mg/kg ( Rabbit )	

**Skin corrosion/irritation** Irritating to skin.

**Serious eye damage/eye irritation** Causes severe eye damage.

**Sensitization**

<b>Respiratory Sensitization</b>	None known.
<b>Skin sensitization</b>	None known.
<b>Germ Cell Mutagenicity</b>	None known.
<b>Carcinogenicity</b>	None known.
<b>Reproductive toxicity</b>	None known.
<b>Specific target organ systemic toxicity (single exposure)</b>	None known
<b>Specific target organ systemic toxicity (repeated exposure)</b>	None known
<b>Aspiration hazard</b>	None known.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Benzene, mono-C10-13-alkyl derivs., distn. residues		>100: 96 h Pimephales promelas mg/L LC50		
Sulfonic acids, petroleum, sodium salts		3.9: 96 h Oncorhynchus mykiss mg/L LC50 32.6: 96 h Pimephales promelas mg/L LC50		3.9: 48 h Daphnia magna mg/L EC50
Alcohols, C12-14, ethoxylated	>0.1: 72 h Desmodesmus subspicatus mg/L EC50	>0.1: 96 h Brachydanio rerio mg/L LC50		>0.1: 48 h Daphnia magna mg/L EC50
2,2',2"-Nitrilotriethanol	216: 72 h Desmodesmus subspicatus mg/L EC50 169: 96 h Desmodesmus subspicatus mg/L EC50	10600-13000: 96 h Pimephales promelas mg/L LC50 flow-through 1000: 96 h Pimephales promelas mg/L LC50 static 450-1000: 96 h Lepomis macrochirus mg/L LC50 static		1386: 24 h Daphnia magna mg/L EC50
2-Aminoethanol	15: 72 h Desmodesmus subspicatus mg/L EC50	227: 96 h Pimephales promelas mg/L LC50 flow-through 3684: 96 h Brachydanio rerio mg/L LC50 static 300 - 1000: 96 h Lepomis macrochirus mg/L LC50 static 114 - 196: 96 h Oncorhynchus mykiss mg/L LC50 static 200: 96 h Oncorhynchus mykiss mg/L LC50 flow-through		65: 48 h Daphnia magna mg/L EC50
Neutralised 2-Aminoethanol	15: 72 h Desmodesmus subspicatus mg/L EC50	227: 96 h Pimephales promelas mg/L LC50 flow-through 3684: 96 h Brachydanio rerio mg/L LC50 static 300-1000: 96 h Lepomis macrochirus mg/L LC50 static 114-196: 96 h Oncorhynchus mykiss mg/L LC50 static 200: 96 h Oncorhynchus mykiss mg/L LC50 flow-through		65: 48 h Daphnia magna mg/L EC50
2,6-Di-tert-butyl-p-cresol	6: 72 h Pseudokirchneriella	5: 48 h Oryzias latipes mg/L		

	subcapitata mg/L EC50 0.42: 72 h Desmodosmus subspicatus mg/L EC50	LC50		
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**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available

Chemical Name	log Pow
Benzene, mono-C10-13-alkyl derivs., distn. residues	6.7
2,2',2''-Nitrilotriethanol	-2.53
2-Aminoethanol	-1.91
2,6-Di-tert-butyl-p-cresol	4.17

**12.4. Mobility in soil**

No information available

**12.5. Results of PBT and vPvB assessment**

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

**12.6. Other adverse effects**

None known

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods****Waste from Residues / Unused Products**

Dispose of as hazardous waste in compliance with local and national regulations

**Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal. Observe all label precautions until container is cleaned, reconditioned or destroyed.

**Other Data**

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14: TRANSPORT INFORMATION

**14.1. UN-Number**

Not regulated

**14.2. UN proper shipping name**

Not regulated

**14.3. Transport hazard class**

Not regulated

**14.4. Packing group**

Not regulated

#### 14.5. Environmental Hazards

None

#### 14.6. Special precautions for users

None

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

IMDG/IMO Not regulated

ADR/RID Not regulated

ICAO/IATA Not regulated

### SECTION 15: REGULATORY INFORMATION

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

The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008)  
Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

Statutory Instruments: Control of Substances Hazardous to Health Regulations 2002. Chemicals (Hazard Information and Packaging) Regulations 2009.

Acts of Parliament: The Health and Safety at Work etc. Act 1974. Environment Protection Act 1990.

Regulation on classification, labeling, of hazardous chemicals (2002 changing 2005). Appendix VI to Regulation on classification, labeling etc. of hazardous chemicals (2002 changing 2010), list of hazardous substances (as amended). Guidelines for submission and declaration of hazardous waste (2009). Transport of dangerous goods: ADR, RID, IMDG and IATA. Administrative norms for pollution of the atmosphere, 2009.

Workplace exposure limits (EH40)

#### WGK Classification

Hazard to water/Class 2

**The highly refined base oil (Viscosity >20.5 cSt @40°C) contains one or more substance with the following CAS/EC numbers/REACH registration numbers:**

Chemical Name	CAS-No	EC-No	REACH Registration Number
Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated	101316-72-7	309-877-7	01-2119489969-06-xxxx
Lubricating oils (petroleum), used, noncatalytically refined	101316-73-8	309-878-2	02-2119822310-56-xxxx
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	265-090-8	
Residual oils (petroleum), solvent-refined	64742-01-4	265-101-6	01-2119488707-21-xxxx
Extracts (petroleum), residual oil solvent	64742-10-5	265-110-5	01-2119488175-30-xxxx
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	265-155-0	01-2119467170-45-xxxx
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	265-156-6	
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	265-157-1	01-2119484627-25-xxxx
Residual oils (petroleum), hydrotreated	64742-57-0	265-160-8	01-2119489287-22-xxxx
Lubricating oils (petroleum), hydrotreated spent	64742-58-1	265-161-3	
Residual oils (petroleum), solvent-dewaxed	64742-62-7	265-166-0	01-2119480472-38-xxxx
Distillates (petroleum), solvent-dewaxed heavy, paraffinic	64742-65-0	265-169-7	01-2119471299-27-xxxx
Paraffin oils (petroleum), catalytic dewaxed heavy	64742-70-7	265-174-4	01-2119487080-42-xxxx
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	276-737-9	01-2119474878-16-xxxx
Lubricating oils (petroleum), C20-C50, hydrotreated	72623-87-1	276-738-4	01-2119474889-13-xxxx

neutral oil-based			
Lubricating oils	74869-22-0	278-012-2	
Paraffin oils	8012-95-1	232-384-2	
White mineral oil (petroleum)	8042-47-5	232-455-8	01-2119487078-27-xxxx
C18-C50 branched, cyclic and linear hydrocarbons – Distillates	848301-69-9	482-220-0	01-0000020163-82-xxxx

**15.2. Chemical Safety Assessment**

No information available

**SECTION 16: OTHER INFORMATION****Key or legend to abbreviations and acronyms used in the safety data sheet**

Repr.-Reproduction toxicity  
 Asp. Tox. - Aspiration Toxicity  
 Acute Tox. - Acute Toxicity  
 Aquatic Acute - Acute Aquatic Toxicity  
 Aquatic Chronic - Chronic Aquatic Toxicity  
 Eye Dam. - Eye Damage  
 Eye Irrit. - Eye Irritation  
 Skin Corr. - Skin Corrosion  
 Skin Irrit. - Skin Irritation  
 Skin Sens. - Skin Sensitizer  
 Resp. Sens. - Respiratory Sensitizer  
 STOT SE - Specific target organ systemic toxicity (Single exposure)  
 STOT RE - Specific target organ systemic toxicity (repeated exposure)  
 VOC - Volatile organic compounds

**Full text of H-Statements referred to under sections 2 and 3**

<ul style="list-style-type: none"> <li>• H224 - Extremely flammable liquid and vapor</li> <li>• H225 - Highly flammable liquid and vapor</li> <li>• H226 - Flammable liquid and vapor</li> <li>• H270 - May cause or intensify fire; oxidizer</li> <li>• H271 - May cause fire or explosion; strong oxidizer</li> <li>• H272 - May intensify fire; oxidizer</li> <li>• H290 - May be corrosive to metals</li> <li>• H300 - Fatal if swallowed</li> <li>• H301 - Toxic if swallowed</li> <li>• H302 - Harmful if swallowed</li> <li>• H304 - May be fatal if swallowed and enters airways</li> <li>• H310 - Fatal in contact with skin</li> <li>• H311 - Toxic in contact with skin</li> <li>• H312 - Harmful in contact with skin</li> <li>• H314 - Causes severe skin burns and eye damage</li> <li>• H315 - Causes skin irritation</li> <li>• H317 - May cause an allergic skin reaction</li> <li>• H318 - Causes serious eye damage</li> <li>• H319 - Causes serious eye irritation</li> <li>• H330 - Fatal if inhaled</li> <li>• H331 - Toxic if inhaled</li> <li>• H332 - Harmful if inhaled</li> <li>• H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled</li> <li>• H335 - May cause respiratory irritation</li> <li>• H336 - May cause drowsiness or dizziness</li> <li>• H340 - May cause genetic defects</li> </ul>	<ul style="list-style-type: none"> <li>• H341 - Suspected of causing genetic defects</li> <li>• H350 - May cause cancer</li> <li>• H351 - Suspected of causing cancer</li> <li>• H360 - May damage fertility or the unborn child</li> <li>• H361 - Suspected of damaging fertility or the unborn child</li> <li>• H362 - May cause harm to breast-fed children</li> <li>• H370 - Causes damage to organs</li> <li>• H371 - May cause damage to organs</li> <li>• H372 - Causes damage to organs through prolonged or repeated exposure</li> <li>• H373 - May cause damage to organs through prolonged or repeated exposure</li> <li>• H400 - Very toxic to aquatic life</li> <li>• H410 - Very toxic to aquatic life with long lasting effects</li> <li>• H411 - Toxic to aquatic life with long lasting effects</li> <li>• H412 - Harmful to aquatic life with long lasting effects</li> <li>• H413 - May cause long lasting harmful effects to aquatic life</li> <li>• H360Df - May damage the unborn child. Suspected of damaging fertility</li> <li>• H360D - May damage the unborn child</li> <li>• H360FD - May damage fertility. May damage the unborn child</li> <li>• H360F - May damage fertility</li> <li>• H361d - Suspected of damaging the unborn child</li> <li>• H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child</li> <li>• H361f - Suspected of damaging fertility</li> <li>• EUH066 - Repeated exposure may cause skin dryness or cracking</li> <li>• EUH210 - Safety data sheet available on request</li> <li>• EUH208 - May produce an allergic reaction</li> </ul>
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**Exposure scenario**

No information available

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Revision Date: 08-26-2015

**Revision Note**

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.