

Rev n. 03 – April 2017

## **Safety Data Sheet**

**CO5W40** 

## 1. Identification of the substance/mixture and of the Company

- 1.1. Product identifier
- 1.1.1 Product name
- 1.1.2 Trade name
- 1.2. Relevant identified uses of the substance/mixture and use advised against
- 1.3 Details of the supplier of the safety data sheet

Main uses: 4 stroke engine lubrication

**Synthetic Technology Engine Oil** 

### 2. Hazard identification

#### 2.1. Classification of the mixture

2.1.2. Classification according to Regulation (EC) No. 1272/2008 [CLP] Eye Irrit. 2 H319

Full text of H-phrases: see section 16.

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP):



GHS07

CLP Signal word:

Warning



Hazardous ingredients and/or with relevant occupational

exposure limits: Zinc Alkyl Dithiophosphate.

Hazard statements (CLP): H319 - Causes serious eye irritation.

Precautionary statements (CLP): P264 - Wash the hands thoroughly after handling.

P280 - Wear Eye protection, Gloves.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical

advice/attention

EUH phrases: EUH208 - Contains Benzenesulfonic Acid, Calcium

Salt. May produce an allergic reaction.

2.3. Other hazards: None

## 3. Composition/information on ingredients

3.1. Substances Not applicable.

3.2 Mixtures Mineral base oil. Synthetic technology base oil.

Additives.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
LUBRICATING BASE OIL	EINECS: 278-012-2 REACH registration number 01-2119495601-36-0009 EINECS: 265-157-1 REACH registration number 01-2119484627-25	80.75	Not classified
ZINC ALKYL DITHIOPHOSPHATE	EINECS: 283-392-8 REACH registration number 01-2119493626-26	0.64 – 1.29	Aquatic Chronic 2; H 411 Eye Dam. 1; H 318 Skin Irrit. 2; H 315
ETHYLENE-PROPYLENE POLYMER	EINECS: Polymer REACH registration number Not applicable	1.98	Not classified



PHENOL DODECYL, BRANCHED	EINECS: 310-154-3	0.007 - 0.06	Aquatic Acute 1; H 400
	REACH registration number		Aquatic Chronic 1; H 410
	01-2119513207-49		Eye Irrit. 2; H 319
BENZENESULFONIC ACID, CALCIUM SALT	EINECS: 274-263-7	0.1 - 0.15	Skin Sens.1; H 317
	REACH registration number		
	01-2119492616-28		
METHACRYLIC POLYMER	EINECS: Polymer	0.09 - 0.21	Not classified
	REACH registration number		
	Not applicable		

See Section 16 for the full text of H and EUH-phrases mentioned above.

## 4. First-aid measures

4.1. 4.1.1	Description of first aid measures Inhalation	If an exposure to high-concentrated oil mists occurs, move the patient to fresh air. If liquid is inhaled, take to hospital immediately.
4.1.2	Skin contact	Wash skin thoroughly with water and soap.
4.1.3	Eye contact	Immediately flush eyes with large amounts of water.
4.1.4	Ingestion	Do not induce vomiting. Call a physician.
4.2. 4.3.	Most important symptoms and effects, both acute and delayed Indication of any immediate medical attention and special treatment needed	Not applicable  Depending on the exposure level, it is recommended periodical medical checks.

# 5. Firefighting measures

5.1. 5.1.2 5.1.3 5.2.	Extinguishing media Recommended Forbidden Special hazards arising from the	Carbon Dioxide, foams, powders. Water jets.
	substance or mixture	In case of combustion, it may generate dangerous smokes of carbon monoxide, carbon dioxide, unburnt hydrocarbon flue gas and other pyrolysis products.
5.3.	Advice for firefighters	
5.3.1	Personnel equipment	Oxygen breathing set and protective clothes.
5.3.2	Other recommendations	Cool the tanks by water jet.



#### 6. Accidental release measure

6.1. Personal precautions, protective equipment and emergency procedure

Remove ignition sources, provision

sufficient ventilation.

Wear suitable protective equipment to prevent any contamination of skin, eyes

and personal clothing.

6.2. Environmental precaution Do not allow product to enter sewers or

watercourses.

Notify appropriate authorities in case of

spill/leakage.

6.3. Methods and material for containment and clearing up

6.3.1 Advice to contain a spill Dike area of spill.

6.3.2 Advice to clean-up a spill Recover with any appropriate equipment. Absorb with inert material, i.e.: sand.

64 Reference to other sections See Sections 8 and 13.

#### 7. **Handling and Storage**

7.1. Precautions for safe handling

7.1.1 Recommendations

Prevent oil mists from generating. Reduce the release of substance to

the environment.

7.1.2 Advice on general occupational hygiene Don't have any food and beverage in

working area. It is recommended to wash

hands after use.

Undress contaminated safety equipment

before having any food.



7.2. Condition for safe storage, including any incompatibilities

Keep containers closed when not in use.

Do not store open and unlabelled containers. Keep away from flammable

materials

Do not store near heat, sparks, open flames

and strong oxidizing agents.

7.3. Specific end use Not available.

#### 8. **Exposure control/personal protection**

8.1.	Control	parameter

- National limit values 8.1.1
- 8.1.1.1 National occupational exposure limit in accordance with Directive 98/24/EC

8.1.1.2 National occupational exposure limit values in accordance with Directive 2004/37/EC

8.1.1.3 Any other national occupational exposure limit value

8.1.1.4 National biological limit values in accordance with Directive 98/24/EC

8.1.1.5 Any other national biological limit values

8.1.2 Information recommended monitoring procedures provided for the most relevant substances

8.1.3 Occupational exposure limit values and/or biological limit values for these

8 1 4 Relevant DNELs and PNECs

8.1.5 Risk management measures

8.2. Exposure controls

8.2.1 Appropriate engineering controls

8.2.2 Individual protection measures, such as personal protective equipment

8.2.2.1 Eye/face protection

8.2.2.2 Skin protection

8.2.2.3 Respiratory protection

TLV-TWA (A.G.C.I.H),oil mist: 5mg/m<sup>3</sup> TLV-STEL (A.G.C.I.H),oil mist: 10 mg/m<sup>3</sup>

Not applicable

None

Not applicable Not applicable

Not available

Not applicable Not available

Not applicable

Prevent mist or aerosol from generating.

Goggles are suggested.

Wear standard working clothing. Not necessary under normal use

conditions

8.2.2.4 Hand protection

Mineral oil-proof gloves are suggested.



## 8.2.3 Environmental exposure controls

Do not allow product to soak the soil or enter sewers or watercourses.

Complete, in hydrocarbons and

most of organic solvents.

## 9. Physical and chemical properties

9.1.	Information on basic physical and chemical prope	erties
9.1.1	1.1	T · · · 1
	Physical state at 20°C and 1013 hPa	Liquid
	Colour	Dark yellow
9.1.2		Typical
	Odour threshold	Not applicable
9.1.4	1	Not applicable
	Pour point	-27°C Max
9.1.6	Initial boiling point and boiling range	>360°C
	Flash point	>215°C
9.1.8	Evaporation rate	Not applicable
9.1.9	Flammability (solid, gas)	Not applicable
	Upper/lower flammability or explosive limits	Not applicable
	Vapour pressure at 20°C	< 0.01 hPa
	Vapour density	>2
	Relative density at 15°C	880 Kg/m³ Max
9.1.14	Solubility in water	Negligible
	Partition coefficient : n-octanol/water	Not applicable
9.1.16	Auto-ignition temperature	>325°C
	Decomposition temperature	Not applicable
	Viscosity at 100°C	$12.6 \text{ to } 16.2 \text{ mm}^2/\text{s}$
	Viscosity at 40°C	90 mm <sup>2</sup> /s typical
	Explosive properties	Not applicable
9.1.20		Not applicable
9.2.	Other Information	

## 10. Stability and reactivity

Miscibility

9.2.1

10.1.	Reactivity	Not reactive.
10.2.	Chemical stability	The product is stable under normal use and storage conditions.
10.3.	Possibility of hazardous reactions	None.
10.4.	Condition to avoid	Avoid exposure to heat, especially in closed
		containers.



10.5. Incompatible materials Strong oxidizing agents.

10.6. Hazardous decomposition products None.

## 11. Toxicological information

11.1. Information on toxicological effects 11.1.1 Acute toxicity  $LD_{50}$  (oral): > 5000 mg/Kg bw (not toxic)  $LD_{50}$  (dermal): > 2000 mg/Kg bw (not toxic)  $LC_{50}$  (inhalation):  $> 5000 \text{ mg/m}^3$  air (not toxic) 11.1.2 Skin corrosion/irritation Not corrosive/not irritating 11.1.3 Serious eye damage/irritation Not corrosive/not irritating 11.1.4 Respiratory or skin sensitisation Not sensitising 11.1.5 Germ cell mutagenicity Genetic toxicity: negative 11.1.6 Carcinogenicity Not carcinogenic via oral, dermal or inhalation exposures (OECD 453). 11.1.7 Reproductive toxicity Not reproductive toxicant (OECD 421) (route:oral): NOAEL: 1000 mg/Kg bw/day (route: dermal): NOAEL: 2000 mg/Kg bw/day

## 12. Ecological information

12.1. Not toxic Toxicity 12.2. Persistence and degradability Inherently biodegradable, but not readily biodegradable; moderately persistent, particularly in anaerobic conditions. Being poorly soluble in water, its bio-availability Bioaccumulative potential to aquatic organisms is minimal and the bioaccumulation is unlikely. 12.3. Not available Mobility in soil 12.4. Results of PBT and vPvB assessment Not classified as PBT or vPvB mixture 12.5. Other adverse effects None

## 13. Disposal information

All disposals must comply with Community regulations on this issue except for different National or Regional provisions.



by discharging into sewers, tunnels, lakes, or water courses. Deliver to a qualified official collector.

According to the actual use, this product can be classified with different codes, e.g. in groups 13 and 16 (Ref.: 2001/118/CE). It is not possible to give a general classification: the user has the responsibility of choosing the right code, considering the actual use of the product, alterations and contaminations.

#### 13.2. Disposal of packaging

Dispose of in a safe manner, in accordance with local regulations.

Do not cut, weld, drill, burn or incinerate empty containers or drums unless they have been cleaned and declared safe.

### 14. Transport information

14.1.	UN number	Not applicable
14.2.	UN proper shipping number	Not applicable
14.3.	Transport hazard class	Does not belong to any class of danger.
14.4.	Packing group	Not applicable
14.5.	Environmental hazards	None
14.6.	Special precautions for user	None
14.7.	Transport in bulk according to annex II	
	of MARPOL 73/78 and the IBC Code	Not applicable
14./.	1	Not applicable

## 15. Regulatory information

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

National laws on classification, labelling and packaging of dangerous substances and mixtures (Adoption of Regulation1272/2008/CE (CLP) and subsequent amendments).

National adoption of Directives 89/391/CEE, 89/654/CEE, 89/655/CEE, 89/656/CEE, 97/42/CE, 99/38/CE, 99/92/CE, 2001/45/CE, 2003/10/CE, 2003/18/CE.

National adoption of Directive 75/439/CEE, concerning disposal of used oils.

Relevant national laws on recycling an re-use of waste materials.



Relevant national laws on prevention of water Pollution

15.2. Chemical safety assessment

Not available.

### 16. Other information

#### 16.1. Additional Data

The lubricant base oils used for this final product are subjected to refining treatment, therefore their PAH content (Polycyclic Aromatic Hydrocarbon) according to IP 346 method, is less than 3%.

So, they are not classified as carcinogenic according Regulation 1278/2008/EC (CLP) and subsequent amendments.

16.2. References to regulations on Material Safety Data Sheet issuing.

This sheet has been compiled in compliance with Regulation (EC) 1907/2006-REACH and subsequent amendments and in compliance with Regulation (EC) 1272/2008-CLP and subsequent amendments.

#### 16.3. Revision

This safety sheet has been updated according to the latest Community directives as far as new regulation references and data are concerned.

#### 16.4. Full text of H and EUH-phrases:

Aquatic Acute 1	Hazardous to the aquatic environment – acute hazard, category 1.
Aquatic Chronic 1	Hazardous to the aquatic environment – chronic hazard, category 1.
Aquatic Chronic 2	Hazardous to the aquatic environment – chronic hazard, category 2.
Eye Dam. 1	Serious eye damage. Hazard category 1.
Eye Irrit. 2	Serious eye irritation. Hazard category 2.
Repr. 2	Reproductive toxicity. Hazard category 2.
Skin Irrit. 2	Skin irritation. Hazard category 2.
Skin Sens. 1	Skin sensitization. Hazard category 1.
Н 315	Causes skin irritation.
Н 317	May cause an allergic skin reaction.
Н 318	Causes serious eye damage.
Н 319	Causes serious eye irritation.
Н 361	Suspected of damaging fertility or the unborn child <state effect="" if="" known="" specific=""> <state cause="" conclusively="" exposure="" hazard="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" that="" the="">.</state></state>
H 400	Very toxic to aquatic life.
H 410	Very toxic to aquatic life with long lasting effects.
H 411	Toxic to aquatic life with long lasting effects.
EUH 208	Contains Benzenesulfonic Acid, Calcium Salt.



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