

# SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS #: 086690 RUBIA OPTIMA 1100 15W40

**Date of the previous version:** not applicable **Revision Date:** 2016-10-18 **Version** 1

1. IDENTIFICATION

**Product identifier** 

Product name RUBIA OPTIMA 1100 15W40

Other means of identification

Product Code(s) 086690

Number FQC Substance/mixture Mixture

Recommended use of the chemical and restrictions on use

**Identified uses** Engine oil.

Uses advised against Do not use for any purpose other than the one for which it is intended

Details of the supplier of the safety data sheet

Supplier Address TOTAL Specialties USA Inc

1201 Louisiana Street, Suite 1800

Houston, TX 77002 Phone: +1 800 323 3198

Contact Point Technical/ HSEQ

E-mail Address USRMLIN-info@total.com

Emergency telephone number

Company Phone Number +1 (908) 862-9300

Emergency telephone +1 866 928 0789 (24h/24, 7d/7) +1 215 207 0061 (24h/24, 7d/7)

# 2. HAZARDS IDENTIFICATION

### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Label elements

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### **Hazard Statements**



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None

#### **Unknown Acute Toxicity**

5.7962% of the mixture consists of ingredient(s) of unknown toxicity

#### Hazards not otherwise classified (HNOC)

None known

Other information

**Physical-Chemical Properties** Contaminated surfaces will be extremely slippery.

**Environmental properties** Should not be released into the environment.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Chemical Name	CAS-No	Weight %
Distillates (petroleum), solvent-dewaxed heavy	64742-65-0	5-<10%
paraffinic		
reaction mass of isomers of: C7-9-alkyl	125643-61-0	2,5-<5
3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate		
bis(nonylphenyl)amine	36878-20-3	1-<2,5
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	93819-94-4	1-<2,5
Molybdene dithiocarbamide complex, polysulfur alkyl long chain	Μ	0,1-<0,3

Additional information Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

# 4. FIRST AID MEASURES

## First aid measures for different exposure routes

General advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR

EMERGENCY MEDICAL CARE.

Eye contact Rinse immediately with plenty of water and seek medical advice.

**Skin contact** Rinse immediately with plenty of water and seek medical advice.

**Inhalation** Move to fresh air.

**Ingestion** Do not induce vomiting. If conscious, give 2 glasses of water. Get immediate medical

attention.



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#### Most important symptoms/effects, acute and delayed

Skin contact Not classified.

Eye contact Not classified. The supplier of some components contained within this formulation has

indicated that the classification as irritant is not required.

**Inhalation** Not classified. Symptoms of overexposure are dizziness, headache, tiredness, nausea,

unconsciousness, cessation of breathing.

Ingestion Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

<u>Suitable Extinguishing Media</u> Use CO2, dry chemical, or foam.

**Unsuitable Extinguishing Media**Do not use a solid water stream as it may scatter and spread fire.

<u>Special Hazard</u> Incomplete combustion and thermolysis may produce gases of varying toxicity such as

carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may

be highly dangerous if inhaled in confined spaces or at high concentration.

**Explosion Data** 

Sensitivity to Mechanical Impact Sensitivity to Static Discharge None. None.

Protective Equipment and Precautions for Firefighters

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

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

**General Information** Ensure adequate ventilation. For personal protection see section 8.

**Other information** See Section 12 for additional information.

**Environmental precautions** 

**General Information** See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for cleaning up Keep in suitable, closed containers for disposal. Contain spillage, and then collect with

non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite)



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and place in container for disposal according to local / national regulations (see section 13).

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety

practice.

**Hygiene measures** When using, do not eat, drink or smoke. Wear suitable gloves and eye/face protection.

Wash hands before breaks and at the end of workday. Wash hands with water as a precaution. Regular cleaning of equipment, work area and clothing is recommended. Avoid

breathing vapors, mist or gas.

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

Technical measures/Storage

conditions

Keep container tightly closed in a dry and well-ventilated place. Store in original container.

Materials to Avoid Strong oxidizing agents. Strong reducing agents. Strong acids. Strong bases.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure limits** Mineral oil mist:

USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH

(TLV) TWA 5 mg/m3 (highly refined).

#### **Exposure controls**

**Engineering Measures** Apply technical measures to comply with the occupational exposure limits.

#### Individual protection measures, such as personal protective equipment

**General Information** If the product is used in mixtures, it is recommended that you contact the appropriate

protective equipment suppliers. These recommendations apply to the product as supplied.

**Eye/Face Protection** If splashes are likely to occur, wear:. Safety glasses with side-shields.

**Skin and body protection** Wear suitable protective clothing. Protective shoes or boots.

Hand Protection Protective gloves.



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Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

**Hygiene measures** When using, do not eat, drink or smoke. Wear suitable gloves and eye/face protection.

Wash hands before breaks and at the end of workday. Wash hands with water as a

precaution. Regular cleaning of equipment, work area and clothing is recommended. Avoid

breathing vapors, mist or gas.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Physical and chemical properties

**Appearance** limpid

**Color** No information available

Physical State @20°C liquid

**Odor** Characteristic

Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks</u> <u>Method</u>

oH Not applicable

Melting point/range No information available

Boiling point/boiling range No information available

 Flash point
 234 °C
 ASTM D 92

 453 °F
 ASTM D 92.

**Evaporation rate**No information available

Flammability Limits in Air

No information available

**upper** No information available

Lower No information available Vapor Pressure No information available

Vapor density

No information available

 Relative density
 0.877
 @ 15 °C
 ASTM D 1298

 Density
 877 kg/m³
 @ 15 °C
 ASTM D 1298

Water solubility Not applicable

Solubility in other solvents No information available

logPowNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information available

 Viscosity, kinematic
 118.2 mm2/s
 @ 40 °C
 ASTM D 445

 15.47 mm2/s
 @ 100 °C
 ASTM D 445

Explosive properties Not explosive Oxidizing Properties Not applicable

Possibility of hazardous reactions No information available

Other information



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Freezing Point No information available

Pour point -30 °C ASTM D 97

## 10. STABILITY AND REACTIVITY

**Reactivity** No information available.

**Chemical stability** Stable under recommended storage conditions.

Possibility of hazardous reactions 
None under normal processing.

<u>Conditions to Avoid</u>
<u>Incompatible Materials</u>
Heat, flames and sparks. Take precautionary measures against static discharges.
Strong oxidizing agents. Strong reducing agents. Strong acids. Strong bases.

Hazardous Decomposition Products None under normal use.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Principle Routes of Exposure Inhalation, Ingestion, Eye contact, Skin contact.

Skin contact Not classified.

Eye contact Not classified. The supplier of some components contained within this formulation has

indicated that the classification as irritant is not required.

**Inhalation** Not classified. Symptoms of overexposure are dizziness, headache, tiredness, nausea,

unconsciousness, cessation of breathing.

Ingestion Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Acute toxicity - Product Information

**Product Information** Product does not present an acute toxicity hazard based on known or supplied information.

Oral Not classified.
ATEmix (oral) 58204 mg/kg

Dermal Not classified
ATEmix (dermal) 52399 mg/kg

Inhalation Not classified ATEmix (inhalation-dust/mist) Not classified 352.8 mg/l

#### **Acute toxicity - Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Distillates (petroleum),	LD50 > 5000 mg/kg bw (rat - OECD	LD50 > 5000 mg/kg bw (rabbit -	LC50 (4h) > 5.53 mg/l (aerosol) (rat	



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solvent-dewaxed heavy paraffinic 64742-65-0	420)	OECD 402)	- OECD 403)
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphen yl)propionate 125643-61-0	LD50 > 2000 mg/kg (Rat - OECD 401)	LD50 > 2000 mg/kg (Rat - OECD 402)	
bis(nonylphenyl)amine 36878-20-3	LD50 > 5000 mg/kg (Rat - OECD 401)	LD50 > 2000 mg/kg (Rat - OECD 402)	
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) 93819-94-4	LD50 2600 mg/kg (Rat)	LD50 > 3160 mg/kg (Rabbit - OECD 402)	
Molybdene dithiocarbamide complex, polysulfur alkyl long chain	LD50 > 2000 mg/kg (Rat - OECD 425)	LD50 > 2000 mg/kg (Rat - OECD 402)	

Sensitization Carcinogenicity

Not classified as a sensitizer.

This product is not classified carcinogenic. During use in engines, contamination of oil with low levels of combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.

Chemical Name	ACGIH	IARC	NTP	OSHA
Distillates (petroleum),				-
solvent-dewaxed heavy				
paraffinic				
64742-65-0				Į.

Mutagenicity Reproductive toxicity Aspiration Hazard This product is not classified as mutagenic. Contains no ingredient listed as a mutagen.

This product does not present any known or suspected reproductive hazards.

Not classified.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Acute aquatic toxicity - Product Information

No information available

### Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms
Distillates (petroleum),		LL50 (96h) > 100 mg/l	EL50 (48h) > 10000 mg/l	
solvent-dewaxed heavy		(Oncorhynchus mykiss -	(Daphnia magna - OECD	
paraffinic		OECD 203)	202)	
64742-65-0				
reaction mass of isomers of:	EC50 (72h) > 3 mg/l	LC50 (96h) > 74 mg/l	EC50(24h) > 100 mg/l	
C7-9-alkyl	(Scenedesmus sp OECD	(Brachydanio rerio - semi	(Daphnia magan - OECD	
3-(3,5-di-trans-butyl-4-hydro	201)	static - OECD 203)	202)	
xyphenyl)propionate	,		,	
125643-61-0				



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bis(nonylphenyl)amine 36878-20-3	EC50 (72h) > 100 mg/l (Desmodesmus subspicatus - OECD 201)	LC50 (96h) > 100 mg/l (Brachyanio rerio - OECD 203)	EC50 (48h) > 100 mg/l (Daphnia magna - OECD 202)	
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) 93819-94-4	EbC50 (96h) 2.1 mg/l Selenastrum capricornutum (OECD 201)	LC50 (96h) 4.5 mg/l Oncorhynchus mykiss (OECD 203)	EL50 (48h) 5.4 mg/l Daphnia magna (OECD 202)	
Molybdene dithiocarbamide complex, polysulfur alkyl long chain	EC50 (72h) 14 mg/l (Selenastrum capricornutum - OECD 201)	LL50 (96h) 94.8 mg/l (Oncorhynchus mykiss - OECD 203)	EL50 (48h) 50 mg/l (Daphnia magna - OECD 202)	

# **Chronic aquatic toxicity - Product Information**

No information available

## **Chronic aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to daphnia and	Toxicity to fish	Toxicity to
		other aquatic invertebrates		microorganisms
Distillates (petroleum),		NOEL (21d) 10 mg/l	NOEL (14/28d) > 1000 mg/l	
solvent-dewaxed heavy		(Daphnia magna - OECD	(Oncorhynchus mykiss -	
paraffinic		211)	QSAR Petrotox)	
64742-65-0				

**Effects on terrestrial organisms** No information available.

Persistence and degradability

**General Information** No information available.

**Bioaccumulative potential** 

**Product Information** No information available.

logPow No information available

Component Information

Chemical Name	log Pow
reaction mass of isomers of: C7-9-alkyl	9.2
3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate	
125643-61-0	
bis(nonylphenyl)amine	7.7
36878-20-3	
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	0.9
93819-94-4	
Molybdene dithiocarbamide complex, polysulfur alkyl long chain	5.1
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**Mobility** 



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**Soil** Given its physical and chemical characteristics, the product generally shows low soil

mobility

Air Loss by evaporation is limited

Water Insoluble The product spreads on the surface of the water.

Other adverse effects

General Information No information available

# 13. DISPOSAL CONSIDERATIONS

#### **Waste treatment**

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40

CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local

regulations for additional requirements.

**Contaminated packaging** Dispose of in accordance with local regulations.

#### 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

MEX Not regulated

ICAO/IATA Not regulated

IMDG/IMO Not regulated

ADR/RID Not regulated

ADN Not regulated

## 15. REGULATORY INFORMATION

# **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any



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chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Acute Health Hazard no
Chronic Health Hazard no
Fire Hazard no
Sudden Release of Pressure Hazard no
Reactive Hazard no

### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## **U.S. State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

No information available

# 16. OTHER INFORMATION

NFPA Health Hazard 1 Flammability 0 Instability 0 Physical and chemical hazards -

HMIS Health Hazard 1 Flammability 0 Physical Hazard 0 Personal protection X

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

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**Revision Note** 

\*\*\* Indicates updated section

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

#### Legend

Section 8

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH - National Institute for Occupational Safety and Health

TLV - Threshold Limit Values

PEL - Permissible Exposure Limits

IDHL - Immediately Dangerous to Life or Health concentrations

TWA - Time Weight Average

STEL - Short Term Exposure Limits

S\* - Skin notation

TSCA - Toxic Substance Control Act

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

**End of the Safety Data Sheet**