



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006

SDS # : 30579

**RUBIA TIR 7400 15W-40**

Date of the previous version: 2016-10-21

Revision Date: 2016-12-29

Version 5.05

<b>Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING</b>
--

**1.1. Product identifier**

Product name	RUBIA TIR 7400 15W-40
Number	13T
Substance/mixture	Mixture

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

Identified uses	Motor oil.
-----------------	------------

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

Supplier	TOTAL LUBRIFIANTS 562 Avenue du Parc de L'île 92029 Nanterre Cedex FRANCE Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71
----------	--

**For further information, please contact:**

Contact Point	HSE
E-mail Address	rm.msds-lubs@total.com

**1.4. Emergency telephone number**

Emergency telephone: +44 1235 239670  
 France - ORFILA (INRS) Tél : +33 (0)1 45 42 59 59  
 In France - Poison centers:  
 ANGERS : 02 41 48 21 21  
 BORDEAUX : 05 56 96 40 80  
 LILLE : 08 00 59 59 59  
 LYON : 04 72 11 69 11  
 MARSEILLE : 04 91 75 25 25  
 NANCY : 03 83 22 50 50  
 PARIS : 01 40 05 48 48  
 STRASBOURG : 03 88 37 37 37  
 TOULOUSE : 05 61 77 74 47

<b>Section 2: HAZARDS IDENTIFICATION</b>
--

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

REGULATION (EC) No 1272/2008

Version EU



SDS # : 30579

**RUBIA TIR 7400 15W-40**

Revision Date: 2016-12-29

Version 5.05

For the full text of the H-Statements mentioned in this Section, see Section 2.2.

**Classification**

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008

**2.2. Label elements**

Labelled according to REGULATION (EC) No 1272/2008

**Signal Word**

None

**Hazard Statements**

None

**Precautionary Statements**

None

**Supplemental Hazard Statements**

EUH210 - Safety data sheet available on request

EUH208 - Contains Calcium long chain alkarylsulphonate May produce an allergic reaction

**2.3. Other hazards**

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

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

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixture****Hazardous ingredients**

Chemical Name	EC-No	REACH registration No	CAS-No	Weight %	Classification (Reg. 1272/2008)
Distillates (petroleum), hydrotreated heavy paraffinic	265-157-1	01-2119484627-25	64742-54-7	3-<5	Asp. Tox. 1 (H304)
Amines, polyethylenepoly-, reaction products with 1,3-dioxolan-2-one and succinic anhydride monopropylisobutenyl derivs	-	no data available	147880-09-9	2.5-<5	Aquatic Chronic 4 (H413)
Zinc alkyldithiophosphate	272-028-3	01-2119657973-23	68649-42-3	1-<2.5	Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)
Calcium long chain alkarylsulphonate	-	EXEMPT	^	1-<2.5	Aquatic Chronic 4 (H413)
Calcium long chain alkarylsulphonate	-	-	722503-69-7	0.25-<1	Skin Sens. 1 (H317) Aquatic Chronic 4 (H413)

Version EU



SDS # : 30579

**RUBIA TIR 7400 15W-40**

Revision Date: 2016-12-29

Version 5.05

Calcium long chain alkaryl sulfonate	-	-	722503-68-6	0.1-<0.25	Aquatic Chronic 4 (H413) Skin Sens.1 (H317)
--------------------------------------	---	---	-------------	-----------	--

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

For the full text of the H-Statements mentioned in this Section, see Section 16.

**Section 4: FIRST AID MEASURES****4.1. Description of first-aid measures**

<b>General advice</b>	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids.
<b>Skin contact</b>	Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse. High pressure jets may cause skin damage. Take victim immediately to hospital.
<b>Inhalation</b>	Inhalation of high concentrations of vapor or aerosols may cause irritation of the upper respiratory tract.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

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

<b>Eye contact</b>	Not classified. The supplier of some components contained within this formulation has indicated that the classification as irritant is not required.
<b>Skin contact</b>	Not classified. May produce an allergic reaction.
<b>Inhalation</b>	Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

**Notes to physician** Treat symptomatically.

**Section 5: FIRE-FIGHTING MEASURES****5.1. Extinguishing media**

<b>Suitable Extinguishing Media</b>	Carbon dioxide (CO <sub>2</sub> ). ABC powder. Foam. Water spray or fog.
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter and spread fire.

Version EU

SDS # : 30579

**RUBIA TIR 7400 15W-40**

Revision Date: 2016-12-29

Version 5.05

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

**Special Hazard** 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.

**5.3. Advice for fire-fighters**

**Special protective equipment for fire-fighters** Wear self-contained breathing apparatus and protective suit.

**Other information** Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Section 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

**General Information** Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

**6.2. Environmental precautions**

**General Information** Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional Ecological Information.\*\*\*

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

**Methods for cleaning up** Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

**6.4. Reference to other sections**

**Personal Protective Equipment** See Section 8 for more detail.

**Waste treatment** See section 13.

**Section 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

**Advice on safe handling** When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.

**Prevention of fire and explosion** Take precautionary measures against static discharges: Ground/bond containers, tanks

Version EU

SDS # : 30579

## RUBIA TIR 7400 15W-40

Revision Date: 2016-12-29

Version 5.05

and transfer/receiving equipment.

### Hygiene measures

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands and face before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

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

#### Technical measures/Storage conditions

Keep away from food, drink and animal feedingstuffs. Keep in a banded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

#### Materials to Avoid

Strong oxidizing agents. Strong acids.

### 7.3. Specific end uses

#### Specific use(s)

No information available.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Exposure limits

Mineral oil mist:  
USA: OSHA (PEL) TWA 5 mg/m<sup>3</sup>, NIOSH (REL) TWA 5 mg/m<sup>3</sup>, STEL 10 mg/m<sup>3</sup>, ACGIH (TLV) TWA 5 mg/m<sup>3</sup> (highly refined)

#### Legend

See section 16

#### Derived No Effect Level (DNEL)

##### DNEL Worker (Industrial/Professional)

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7				5.4 mg/m <sup>3</sup> /8h (aerosol - inhalation)

##### DNEL Consumer

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7				1.2 mg/m <sup>3</sup> /24h (aerosol - inhalation)

### 8.2. Exposure controls

Version EU



SDS # : 30579

## RUBIA TIR 7400 15W-40

Revision Date: 2016-12-29

Version 5.05

### Occupational Exposure Controls

#### Engineering Measures

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

#### 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.

##### Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387). Type A/P1. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

##### Eye Protection

Tightly fitting safety goggles. Safety glasses with side-shields.

##### Skin and body protection

Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.

##### Hand Protection

Hydrocarbon-proof gloves: Nitrile rubber, Fluorinated rubber. In case of prolonged contact with the product, it is recommended to wear gloves complying with EN 420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency.

### Environmental exposure controls

#### General Information

The product should not be allowed to enter drains, water courses or the soil.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance	limpid
Color	brown
Physical State @20°C	liquid
Odor	Characteristic
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH		Not applicable	
Melting point/range		Not applicable	
Boiling point/boiling range		No information available	
Flash point	232 °C 450 °F		Cleveland Open Cup (COC) Cleveland Open Cup (COC)
Evaporation rate		No information available	

Version EU





SDS # : 30579

**RUBIA TIR 7400 15W-40**

Revision Date: 2016-12-29

Version 5.05

<b>Flammability Limits in Air</b>		No information available	
<b>upper</b>		No information available	
<b>Lower</b>		No information available	
<b>Vapor Pressure</b>		No information available	
<b>Vapor density</b>		No information available	
<b>Relative density</b>	0.860 - 0.880	@ 20 °C	ASTM D4052
<b>Density</b>	860 - 880 kg/m <sup>3</sup>	@ 20 °C	ASTM D4052
<b>Water solubility</b>		Insoluble	
<b>Solubility in other solvents</b>		Soluble in many common organic solvents	
<b>logPow</b>		No information available	
<b>Autoignition temperature</b>		No information available	
<b>Decomposition temperature</b>		No information available	
<b>Viscosity, kinematic</b>	101 mm <sup>2</sup> /s	@ 40 °C	ISO 3104
	13.6 - 14.4 mm <sup>2</sup> /s	@ 100 °C	ISO 3104
<b>Explosive properties</b>	Not explosive		
<b>Oxidizing Properties</b>	Not applicable		
<b>Possibility of hazardous reactions</b>	No information available		

**9.2. Other information**

<b>Freezing Point</b>	No information available
-----------------------	--------------------------

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

<b>General Information</b>	No information available.
----------------------------	---------------------------

**10.2. Chemical stability**

<b>Stability</b>	Stable under recommended storage conditions.
------------------	--

**10.3. Possibility of hazardous reactions**

<b>Hazardous Reactions</b>	None under normal processing.
----------------------------	-------------------------------

**10.4. Conditions to Avoid**

<b>Conditions to Avoid</b>	Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.
----------------------------	---

**10.5. Incompatible materials**

<b>Materials to Avoid</b>	Strong oxidizing agents. Strong acids.
---------------------------	--

**10.6. Hazardous Decomposition Products**

<b>Hazardous Decomposition Products</b>	None under normal use.
---	------------------------

Version EU

SDS # : 30579

# RUBIA TIR 7400 15W-40

Revision Date: 2016-12-29

Version 5.05

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity Local effects Product Information

<b>Skin contact</b>	. Not classified. May produce an allergic reaction.
<b>Eye contact</b>	. Not classified. The supplier of some components contained within this formulation has indicated that the classification as irritant is not required.
<b>Inhalation</b>	. Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	. Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>ATEmix (oral)</b>	78,390.00 mg/kg
<b>ATEmix (dermal)</b>	69,659.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	90.60 mg/l

#### Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Distillates (petroleum), hydrotreated heavy paraffinic	LD50 > 5000 mg/kg bw (rat - OECD 420)	LD50 > 5000 mg/kg bw (rabbit - OECD 402)	LC50 (4h) > 5 mg/l (aerosol) (rat - OECD 403)
Zinc alkyldithiophosphate	LD50 2900 mg/kg (Rat)	LD50 > 2000 mg/kg (Rabbit)	

#### Sensitization

**Sensitization** Not classified as a sensitizer. Contains sensitizer(s). May produce an allergic reaction.

#### Specific effects

**Carcinogenicity** 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.

**Mutagenicity** This product is not classified as mutagenic.

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

#### Repeated Dose Toxicity

**Subchronic toxicity** No information available.

#### Target Organ Effects (STOT)

**Target Organ Effects (STOT)** No information available.

#### Other information

**Other adverse effects** Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).

## Section 12: ECOLOGICAL INFORMATION





SDS # : 30579

**RUBIA TIR 7400 15W-40**

Revision Date: 2016-12-29

Version 5.05

**12.1. Toxicity**

Not classified.

**Acute aquatic toxicity - Product Information**

No information available.

**Acute aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7	EL50 (48h) > 100 mg/l (Pseudokirchnerella subcapitata - OECD 201)	EL50 (48h) > 10000 mg/l (Daphnia magna - OECD 202)	LL50 (96h) > 100 mg/l (Oncorhynchus mykiss - OECD 203)	
Zinc alkyldithiophosphate 68649-42-3	EC50 (72h) 2.2 mg/l	EC50 (48h) 1.2 mg/l (Daphnia magna)	LC50 (96h) 4.5 mg/l	

**Chronic aquatic toxicity - Product Information**

No information available.

**Chronic aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7		NOEL (21d) 10 mg/l (Daphnia magna - QSAR Petrotox)	NOEL (14/28d) > 1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox)	
Zinc alkyldithiophosphate 68649-42-3	NOEC 1.0 mg/l	NOEC (21d) 0.4 mg/l (Daphnia magna)	NOEC(28d) 1.8 mg/l	

**Effects on terrestrial organisms**

No information available.

**12.2. Persistence and degradability****General Information**

No information available.

**12.3. Bioaccumulative potential****Product Information** No information available.**logPow** No information available**Component Information**

Chemical Name	log Pow
Distillates (petroleum), hydrotreated heavy paraffinic - 64742-54-7	-
Zinc alkyldithiophosphate - 68649-42-3	0.56

Version EU



SDS # : 30579

## RUBIA TIR 7400 15W-40

Revision Date: 2016-12-29

Version 5.05

### 12.4. Mobility in soil

<b>Soil</b>	Given its physical and chemical characteristics, the product generally shows low soil mobility.
<b>Air</b>	Loss by evaporation is limited.
<b>Water</b>	Insoluble. The product spreads on the surface of the water.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** No information available.

### 12.6. Other adverse effects

**General Information** No information available.

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

<b>Waste from Residues / Unused Products</b>	Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. Where possible recycling is preferred to disposal or incineration. After use, this oil must be sent to a licensed waste oil facility. Incorrect disposal of used oil poses a risk to the environment. Mixture with other waste types such as solvents, brake- and cooling liquids is forbidden.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>EWC Waste Disposal No.</b>	The following Waste Codes are only suggestions: 13 02 05. 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

<b><u>ADR/RID</u></b>	Not regulated
<b><u>IMDG/IMO</u></b>	Not regulated
<b><u>ICAO/IATA</u></b>	Not regulated
<b><u>ADN</u></b>	Not regulated

## Section 15: REGULATORY INFORMATION

Version EU



SDS # : 30579

## RUBIA TIR 7400 15W-40

Revision Date: 2016-12-29

Version 5.05

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

#### European Union

#### Further information

No information available

### 15.2. Chemical Safety Assessment

**Chemical Safety Assessment**      No information available

### **Section 16: OTHER INFORMATION**

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

H304 - May be fatal if swallowed and enters airways  
 H317 - May cause an allergic skin reaction  
 H318 - Causes serious eye damage  
 H411 - Toxic to aquatic life with long lasting effects  
 H413 - May cause long lasting harmful effects to aquatic life

#### **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  
 DNEL = Derived No Effect Level  
 PNEC = Predicted No Effect Concentration  
 dw = dry weight  
 fw = fresh water  
 mw = marine water  
 or = occasional release

**Legend** Section 8

Version EU



SDS # : 30579

**RUBIA TIR 7400 15W-40**

Revision Date: 2016-12-29

Version 5.05

TWA: Time Weight Average

STEL: Short Time Exposure Limit

PEL: Permissible exposure limit

REL: Recommended exposure limit

TLV: Threshold Limit Values

+ Sensitizer

\*\* Hazard Designation

M: Mutagen

\*

C:

R:

Skin designation

Carcinogen

Toxic to reproduction

**Revision Date:** 2016-12-29**Revision Note** \*\*\* Indicates updated section.**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

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