

# MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**SDS # :** 39031

# **AURELIA TI 3040**

Date of the previous version: 2012-12-03	Date	of the	previous	version:	2012-12-03
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Revision Date: 2012-12-03

Version 2.01

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name	AURELIA TI 3040
Number	RBQ
Pure substance/mixture	Mixture

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

#### Identified uses

Marine Trunk Piston Engine Oil.

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

Supplier	TOTAL LUBRIFIANTS
	562 Avenue du Parc de L'ile
	92029 Nanterre Cedex
	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

#### +33 1 49 00 00 49 (24h/24, 7d/7)

France - ORFILA (INRS) Tél : +33 (0)1 45 42 59 59

In France : - PARIS : Hốpital Fernand Widal 200, rue du Faubourg Saint-Denis 75475 Paris Cédex 10, Tel : 01.40.05.48.48. -MARSEILLE : Hopital Salvator, 249 bd Ste Marguerite 13274 Marseille cedex 5, Tel : 04.91.75.25.25. - LYON : Hopital Edouard Herriot, 5 place d'Arsonvol, 69437 Lyon cedex 3, Tel : 04.72.11.69.11. - NANCY : Hopital central, 29 Av du Mal De Lattre de Tassigny, 54000 Nancy, Tel : 03.83.32.36.36 ou le SAMU : Tel (15)

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

## REGULATION (EC) No 1272/2008

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

### DIRECTIVE 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16



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The substance/mixture is non-dangerous in accordance with Directive(s) 67/548/EEC with amendments and/or 1999/45/EC with amendments **Symbol(s)** Not Classified

#### 2.2. Label elements

Labelled according to

Not classified/No labelling required

R-phrase(s) none

S-phrase(s) none

2.3. Other hazards

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

Environmental properties

Should not be released into the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC-No	REACH registration No	CAS-No	Weight %	Classification (Dir. 67/548)	Classification (Reg. 1272/2008)
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	272-234-3	01-2119524004-56	68784-26-9	< 5	R53	Aquatic Chronic 4 (H413)
Phenol, dodecyl-, branched	310-154-3	01-2119513207-49	121158-58-5	< 1.5	Xi;R36/38 N;R50-53 Repr.Cat.3;R62	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Eye Irrit. 2 (H319) Repr. 2 (H361) Skin Irrit. 2 (H315)

Additional information

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

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

### 4. FIRST AID MEASURES

### 4.1. Description of first-aid measures



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General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR EMERGENCY MEDICAL CARE.	ROR			
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids.				
Skin contact	Remove contaminated clothing and shoes. Wash off with soap and water. W contaminated clothing before reuse.	/ash			
Inhalation	Move to fresh air.				
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious p physician or Poison Control Center immediately.	person. Call a			
4.2. Most important sympt	toms and effects, both acute and delayed				
Eye contact	Not classified.				
Skin contact	Not classified.				
Inhalation	Not classified. Inhalation of vapors in high concentration may cause irritation system.	of respiratory			
Ingestion	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiti diarrhea.	ng and			
4.3. Indication of immediate medical attention and special treatment needed, if necessary					
Notes to physician	Treat symptomatically.				
5. FIRE-FIGHTING MEASUR	RES				

## 5.1. Extinguishing media

Suitable Extinguishing Media Carbon dioxide (CO<sub>2</sub>). ABC powder. Foam. Water spray or fog.

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

5.2. Special hazards arising from the substance or mixture

Special HazardIncomplete combustion and thermolysis may produce gases of varying toxicity such as<br/>carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may<br/>be highly dangerous if inhaled in confined spaces or at high concentration.

## 5.3. Advice for fire-fighters

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



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Other informationCool containers / tanks with water spray. Fire residues and contaminated fire extinguishing<br/>water must be disposed of in accordance with local regulations.

## 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General InformationDo not touch or walk through spilled material. Contaminated surfaces will be extremely<br/>slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all<br/>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.

### 6.3. Methods and materials 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.

## 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 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 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.



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

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

Materials to Avoid Strong oxidizing agents.

7.3. Specific end uses

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

**Exposure limits** oil mist : 10mg/m<sup>3</sup>, for 15 minutes; oil mist : 5mg/m<sup>3</sup>, for 8 hours.

Legend

See section 16

### DNEL Worker (Industrial/Professional)

Chemical Name		Short term, local effects	Long term, systemic	Long term, local effects
Chemical Name	effects	onort term, local effects	effects	Long term, local effects
Phenol, dodecyl-,	80 mg/kg Dermal		20.8 mg/kg Dermal	
sulfurized, carbonates,	167 mg/m <sup>3</sup> Inhalation		70.52 mg/m <sup>3</sup> Inhalation	
calcium salts, overbased 68784-26-9				
Phenol, dodecyl-, branched	166 mg/kg bw/day Dermal		0.25 mg/kg bw/day Dermal	
121158-58-5	44.18 mg/m <sup>3</sup> Inhalation		1.7621 mg/m <sup>3</sup> Inhalation	
DNEL Consumer				
Chemical Name	Short term, systemic	Short term, local effects	Long term, systemic	Long term, local effects
	effects	,	effects	<b>3 3 3 3</b>
Phenol, dodecyl-,			effects	
, , ,			effects 10.42 mg/kg Dermal	
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased 68784-26-9			effects	
sulfurized, carbonates, calcium salts, overbased 68784-26-9 Phenol, dodecyl-,	effects 50 mg/kg bw/day Dermal		effects 10.42 mg/kg Dermal 52.6 mg/m <sup>3</sup> Inhalation 5 mg/kg Oral 0.075 mg/kg bw/day	
sulfurized, carbonates, calcium salts, overbased 68784-26-9 Phenol, dodecyl-, branched	effects 50 mg/kg bw/day Dermal 13.26 mg/m³ Inhalation		effects 10.42 mg/kg Dermal 52.6 mg/m³ Inhalation 5 mg/kg Oral 0.075 mg/kg bw/day Dermal	
sulfurized, carbonates, calcium salts, overbased 68784-26-9 Phenol, dodecyl-,	effects 50 mg/kg bw/day Dermal		effects 10.42 mg/kg Dermal 52.6 mg/m <sup>3</sup> Inhalation 5 mg/kg Oral 0.075 mg/kg bw/day	

Predicted No Effect Concentration (PNEC)

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Chemical Name	Water	Sediment	Soil	Air	STP	Oral



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Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased 68784-26-9	0.5 mg/l fw 0.04 mg/l mw	43500 mg/kg fw 3480 mg/kg mw	8850 mg/kg		
Phenol, dodecyl-, branched 121158-58-5	0.074 μg/l fw 0.0074 μg/l mw 0.37 μg/l or	0.226 mg/kg fw dw 0.0266 mg/kg mw dw	0.118 mg/kg dw	100 mg/l	4 mg/kg food

8.2. Exposure controls

## **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). The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.		
Eye 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. Long sleeved clothing.		
Hand Protection	Hydrocarbon-proof gloves. Fluorinated rubber. Nitrile rubber. 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. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves.		

## **Environmental exposure controls**

### General Information

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

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. Information on basic physical and chemical properties

Color Physical State @20°C Odor yellow liquid Characteristic



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<u>Property</u> pH Boiling point/boiling range	Values	Remarks Not applicable Not applicable	Method
Flash point	> <b>230 °C</b> > 446 °F		Cleveland Open Cup (COC) Cleveland Open Cup (COC).
Evaporation rate Flammability Limits in Air Vapor Pressure Vapor density		No information available No information available No information available No information available	
Density Water solubility Solubility in other solvents logPow	913 kg/m <sup>3</sup>	@ 15 °C Insoluble No information available No information available	
Autoignition temperature Viscosity, kinematic	106 mm2/s 12 mm2/s	No information available @ 40 °C @ 100 °C	ISO 3104 ISO 3104
Explosive properties Oxidizing Properties Possibility of hazardous reactions 9.2. Other information	Not explosive Not applicable Not applicable		

# 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

10.2.	Chemical	stability
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Stability

Stable under recommended storage conditions.

## 10.3. Possibility of hazardous reactions

Hazardous Reactions

None under normal processing.

10.4. Conditions to Avoid

Conditions to Avoid Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

10.5. Incompatible Materials

Materials to Avoid Strong oxidizing agents.

## 10.6. Hazardous Decomposition Products

Hazardous Decomposition Products None under normal use.



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# 11. TOXICOLOGICAL INFORMATION

# 11.1. Information on toxicological effects

## Acute toxicity Local effects Product Information

Skin contact	. Not classified.
Eye contact	. Not classified.
Inhalation	. Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion	. Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

## Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phenol, dodecyl-, sulfurized, carbonates,	LD50 >5000 mg/kg (Rat -	LD50 >4000 mg/kg (Rabbit -	
calcium salts, overbased Phenol, dodecyl-, branched	OECD401) LD50 2100 mg/kg (Rat-OECD	OECD 402) LD50 15000 mg/kg	
Phenol, dodecyi-, branched	401)	(Rabbit-OECD 402)	
Sensitization		(	
Sensitization	Not classified as a sensitizer.		
Specific effects			
Carcinogenicity Mutagenicity Reproductive toxicity	This product is not classified ca low levels of combustion producancer in mice following repeat skin contact with used motor of is thoroughly removed by wash This product is not classified as This product does not present	icts occurs. Used motor oils ha ted application and continuous il is not expected to have serio hing with soap and water. s mutagenic.	ve been shown to cause skin exposure. Brief or intermittent us effects in humans if the oil
Repeated Dose Toxicity Subchronic toxicity	No information available.		
Subchronic toxicity	No information available.		
Target Organ Effects (STOT)			
Target Organ Effects (STOT)	No information available.		
Other information			
Other adverse effects	Characteristic skin lesions (pin exposures (contact with contar		rolonged and repeated



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Toxicity to microorganisms

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

Not classified. An additive present in the composition of this product would require a classification, however available experimental data indicate that no classification is required.

#### 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
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased 68784-26-9		EL50 (48h) >1000 mg/l Daphnia magna static (OECD 202)	LL50 (96h) > 1000 mg/l Pimephales promelas semi-static (OECD 203)	
Phenol, dodecyl-, branched 121158-58-5	EC50(72h) 0.26-0.50 mg/l Desmodesmus subspicatus static (OECD 201)	EC50(48h) 0.037 mg/l Daphnia magna static (OECD 202)	EL50(96h) 40 mg/l Pimephales promelas semi-static (OECD 203)	

# Chronic aquatic toxicity • Product Information

No information available.

#### Chronic aquatic toxicity - Component Information

No information available.				
Chemical Name	Toxicity to algae	Toxicity to daphnia and	Toxicity to fish	
		other aquatic invertebrates	_	
Phenol, dodecyl-, branched		NOEC(21d) 0.0037 mg/l		
121158-58-5		Daphnia magna semi-static		
		(OECD 211)		

#### 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
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Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased - 68784-26-9	9.5
Phenol, dodecyl-, branched - 121158-58-5	7.1

12.4. Mobility in soil

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.
12.5. Results of PBT and v	PvB assessment
PBT and vPvB assessment	No information available.

## 12.6. Other adverse effects

**General Information** 

No information available.

# 13. DISPOSAL CONSIDERATIONS

# 13.1. Waste treatment methods

Waste from Residues / Unused Products	Should not be released into the environment. 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.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
EWC Waste Disposal No.	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.

# 14. TRANSPORT INFORMATION

ADR/RID	Not regulated
ADIMITU .	

IMDG/IMO

Not regulated



ADN

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ICAO/IATA

Not regulated

Not regulated

## 15. REGULATORY INFORMATION

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

**European Union** 

International Inventories

EINECS/ELINCS	-	
TSCA	-	
DSL		
ENCS	-	
IECSC		
KECL		
PICCS		
AICS		
NZIOC		
Legend		
<b>EINECS/ELINCS</b> - European Inventory of	Existing Commercial Chemical Substances/EU List of Notified Chemical Substances	
TSCA - United States Toxic Substances C	ontrol Act Section 8(b) Inventory	
DSL/NDSL - Canadian Domestic Substand	ces List/Non-Domestic Substances List	
<b>ENCS</b> - Japan Existing and New Chemical	Substances	
IECSC - China Inventory of Existing Chemical Substances		
KECL - Korean Existing and Evaluated Chemical Substances		
PICCS - Philippines Inventory of Chemical		
AICS - Australian Inventory of Chemical S		
NZIOC - New Zealand Inventory of Chemic	als	

Further information

## 15.2. Chemical Safety Assessment

#### Chemical Safety Assessment No information available

16. OTHER INFORMATION

#### Full text of R-phrases referred to under sections 2 and 3

R53 - May cause long-term adverse effects in the aquatic environment

R62 - Possible risk of impaired fertility



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R36/38 - Irritating to eyes and skin

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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

- H413 May cause long lasting harmful effects to aquatic life
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects
- H319 Causes serious eye irritation
- H361 Suspected of damaging fertility or the unborn child

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H315 - Causes skin irritation

#### Abbreviations, acronyms

Legend	Section 8		
+	Sensitizer	*	Skin designation
**	Hazard Designation	C:	Carcinogen
M:	Mutagen	R:	Toxic to reproduction

Revision Date:	2012-12-03	
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