

## MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**SDS #:** 080104

# **AURELIA TI 4020**

Date of the previous version: 2011-06-10 Revision Date: 2013-09-20 Version 1.01

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

### 1.1. Product identifier

Product name AURELIA TI 4020

Number 69G Pure substance/mixture Mixture

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

Identified uses Motor oil, Diesel.

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: Hopital 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)

# 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

Directive 1999/45/EC

## R-phrase(s)

none

#### S-phrase(s)

none

Contains Benzoic acid, hydroxy-, mono-C20-28-branched alkyl derivatives, calcium salt (2:1), Salts of alkyl hydroxybenzoic acid. 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.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixture

Chemical Name	EC-No	REACH registration No	CAS-No	Weight %	Classification (Dir. 67/548)	Classification (Reg. 1272/2008)
Salts of alkyl hydroxybenzoic acid	-	no data available	220795-13-1	<1.5	R43 Xi;R38 R53	Skin Sens. 1 (H317) Aquatic Chronic 4 (H413)
Alkylphenate sulfurised, calcium salt	291-829-9	01-2119524004-56	90480-91-4	<1.5	R53	Aquatic Chronic 4 (H413)

### **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



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4.1. Description of first-aid measures

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

EMERGENCY MEDICAL CARE.

**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. Wash

contaminated clothing before reuse.

**Inhalation** Move to fresh air.

Ingestion 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

Eye contact Not classified.

**Skin contact** Not classified. May produce an allergic reaction.

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.

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

Notes to physician Treat symptomatically.

### FIRE-FIGHTING MEASURES

### 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 Hazard Mercaptans. Hydrogen sulphide.

#### 5.3. Advice for fire-fighters

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit.



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Other information

**General Information** 

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

### ACCIDENTAL RELEASE MEASURES

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

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.

### 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.

### 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 conditions

Keep away from food, drink and animal feedingstuffs. Keep in a bunded 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.

### 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

#### 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.

If splashes are likely to occur, wear:. Safety glasses with side-shields.

Skin and body protection

**Eye Protection** 

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



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#### **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.

yellow To brown

Not applicable

@ 100°C

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Physical State @20°C liquid

Characteristic Oily Odor

Property pH Boiling point/boiling range	Values	Remarks Not applicable Not applicable	Method
Flash point	<b>230 °C</b> 446 °F		ISO D 97 ISO D 97.
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	900 kg/m <sup>3</sup>	@ 15 °C Insoluble Soluble in many common organic solvents	ISO D 1298
logPow No information available		-	

**Autoignition temperature** 

13.3 - 14.7 mm2/s Viscosity, kinematic

**Explosive properties** Not explosive **Oxidizing Properties** Not applicable Not applicable Possibility of hazardous reactions

### 9.2. Other information

### 10. STABILITY AND REACTIVITY

#### 10.1. Reactivity

### 10.2. Chemical stability

Version EU

ISO D 445



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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 Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. Mercaptans.

Hydrogen sulphide.

# 11. TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

### Acute toxicity Local effects Product Information

Skin contact

. Not classified. May produce an allergic reaction.

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
Alkylphenate sulfurised, calcium salt	LD50 >5000 mg/kg Oral	LD50 >5000 mg/kg Dermal	

#### Sensitization

Sensitization

Not classified as a sensitizer. The supplier of one of the components contained within this formulation has indicated that they have data, which confirms that at the concentration used, no sensitisation classification is required. Contains sensitizer(s). May produce an allergic reaction.



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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. This product is not classified as mutagenic.

Mutagenicity

Reproductive toxicity Repeated Dose Toxicity This product does not present any known or suspected reproductive hazards.

**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).

### 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

Not classified. The toxicity data are based on component data. 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
Alkylphenate sulfurised,	EC50 (72h) > 500 mg/l	EL50 (48h) > 1000 mg/l	LC50 (96h) > 1000 mg/l	
calcium salt	(Desmodesmus subspicatus	(Daphnia magna - OECD	(Pimephales promelas -	
90480-91-4	- OECD 201)	202)	OECD 203)	

### Chronic aquatic toxicity - Product Information

No information available.

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

No information available.

## Effects on terrestrial organisms

No information available.



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### 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
Alkylphenate sulfurised, calcium salt - 90480-91-4	9.5

### 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 vPvB 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.

torbidae

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.



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**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

IMDG/IMO

Not regulated

ICAO/IATA

Not regulated

ADN

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

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

Further information



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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

R38 - Irritating to skin

R43 - May cause sensitization by skin contact

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

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

H317 - May cause an allergic skin reaction

H413 - May cause long lasting harmful effects to aquatic life

#### Abbreviations, acronyms

Legend Section 8

+ Sensitizer \* Skin designation

\*\* A Skin designation

C: Carcinogen

M: Mutagen R: Toxic to reproduction

**Revision Date:** 

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**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