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## MATERIAL SAFETY DATA SHEET

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### 1. Identification of the substance/preparation and of the company.

Identification of the substance or preparation: **AGIP CITY 2T**

Type of product and use: **Lubricant for two stroke engines**

Company identification: **Agip Iberia S.L.U**

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### 2. Hazards identification.

May cause sensitisation by skin contact.

. . 2.1 physical and chemical dangers:

Main dangers: Product with a small fire risk. It can create inflammable mixtures, or it can only burn but high that the temperature surrounds if he/she warms to temperatures that are normal.

2.2 dangers for the human health:

I contact with the skin: The repeated and lengthened contact, if it almost accompanies personal abundant hygiene, it can cause red reflection of the skin, irritations and dermatitis.

I contact with the eyes: The contact with the eyes can cause irritation and red reflection.

Ingestion: The accidental ingestion of small quantities of the product can cause nausea, uneasiness and gastric disorders. However, in consideration of the pleasure and of the scent of this product, the ingestion of dangerous quantities is very unlikely.

Inhalation: The product has a small tension of vapor and, under normal conditions to temperature surrounds, the concentration in air is worthless. A concentration significant it can be created alone with the use to high temperatures, or bien for operations that provoke splashes or blotters.

In this case, the exhibition lengthened to the vapors or blotters, for example in case of lingering use in closed places and ventilated little, it can provoke irritation to them via breathing, disgusts, uneasiness and stunned state.

Aspiration of the product

in the lungs: The accidental aspiration of small quantities of oil products in them lungs can cause an inflammation (chemical pneumonia). However, in view of the characteristics of the product, this possibility is not very probable.

Other informations: Anyone substance, in the case of incidents with the pipes to the pressure and similar, it can be injected accidentally in the subcutaneous fabric, same without lesions, external I fake. In this case, is necessary to take quickly possible the one it sacrifices to the hospital.

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## 3. Composition/information on ingredients.

Substances that are a health risk according to R.D. 363/1995, Rules and Regulations on Dangerous Substances:

Index No	CAS No	EC No	Registration number	Name	%	Symbols	R phrases *
	121158-58-5	310-154-3		Alkylphenol	0 - 0.249 %	N Xi Xn	R50/53 R38 R41 R62
649-530-00-X	101316-72-7	309-877-7		Lubricating oils (oil), extracted with a solvent, and, dewaxed, hydrogenated	25 - 49.99 %		
	90268-85-2			neutral calcium sulfonate	0 - 24.99 %	Xi	R52/53 R43

\* The complete text of the R phrases is given in section 16 of this Safety Data Sheet.

## 4. First aid measures.

<b>Skin contact:</b>	Take off contaminated clothing and shoes. Wash thoroughly with soap and water. If inflammation or irritation persists, seek medical advice.
<b>Eye contact:</b>	Rinse eyes thoroughly for at least 10 minutes. Keep eyelids well apart. If irritation persists, seek medical advice.
<b>Ingestion:</b>	Do not induce vomiting to avoid aspiration into the lungs. If the person is conscious, rinse mouth with water without swallowing. Keep at rest. Call for medical assistance or bring to an hospital.
<b>Inhalation:</b>	In case of disturbances owing to an exposure to a high concentration of vapours or mists, remove the victim from exposure; keep at rest; if necessary, seek medical attention.
<b>Aspiration of liquid into the lungs:</b>	If there is the possibility that the product has been aspired into the lungs (i.e. in case of spontaneous vomiting), transport the victim to a hospital.

## 5. Fire-fighting measures.

<b>General information:</b>	Shut off source of product, if possible. If possible, move containers and drums away from danger area.
<b>Extinguishing media:</b>	
-Suitable:	Small-size fires: carbon dioxide, dry chemicals, foam, sand or earth. Large fires: foam or water fog (mist). These means should be used by trained personnel only.
-Not to be used:	Do not use water jets. They could cause splattering, and spread the fire.
Special protective equipment for fire fight:	Personal protection equipment. Self-contained breathing apparatus.
Useful precautions:	Avoid accidental sprays on hot surfaces or electrical contacts. In case of losses from pressurized circuits, the sprays may form mists. Take into account that in this case the lower explosion limit for mists is about 45 g/m <sup>3</sup> air.
Other information:	Use water sprays to cool the surfaces exposed to the flames. Spilled product which is not burning should be covered with sand or foam. In case of fire, do not discharge

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runoff water: collect separately and use a proper treatment.

## 6. Accidental release measures.

- General measures:** Shut off source of spill, if possible. Do not let the product flow into sewers, water courses or underground spaces. Notify local authorities according to relevant regulations.
- Personal precautions:** See Sect. 8 of this sheet.
- Methods for cleaning up:**
- Soil: Contain spilled liquid with sand, earth or other suitable absorbents. Recover free liquid and waste materials in suitable waterproof and oil-resistant containers. Clean contaminated area. Dispose of according to local regulations.
- Water: Confine the spillage. Remove from surface by skimming or suitable absorbents. Collect recovered product and other waste materials in suitable waterproof, oil resistant containers. Recover or dispose of according to local regulations. Do not use solvents or dispersants.

## 7. Handling and storage.

- Storage:** Keep away from sources of ignition. Storage temperature: ambient to 55°C max . Store in a well ventilated place.
- Handling:** Store the product in cool, well ventilated surroundings Avoid proximity or contact with hot surfaces, flames or sparks. Avoid contact with skin. Do not breathe vapours or mists. Do not smoke. Do not cut, weld, drill, burn or incinerate empty containers or drums, unless they have been cleaned, and declared safe.
- Specific use(s) Lubricant for two stroke engines

## 8. Exposure controls/personal protection.

### 8.1 Exposure limit values

#### Exposure limits.

Work exposure limit for:

Name	TLV-TWA *( mg/m <sup>3</sup> )		TLV-STEL *( mg/m <sup>3</sup> )	
Lubricating oils (oil), extracted with a solvent, and, dewaxed, hydrogenated	5	Fog of oil	10	A.C.G.I.H. 2005

\* In case of need, bear in mind other limits mentioned in the in force laws, or in the documents ACGIH.

#### Monitoring procedures.

Refer to relevant legislation and in any case to the good practice of industrial hygiene.

### 8.2 Control of exposure.

- General information:** If the conditions of work require it, and if plant characteristics, work procedures and other means are not able to reach the purpose, it is necessary to use suitable means of personal protection.
- Respiratory protection:** Open or well ventilated areas: not necessary. Closed or confined areas (e.g. tank interiors): self-contained breathing apparatus.

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Personal protection:	<p>Long-sleeved overalls. If necessary, refer to the EN 465-466-467 standards. When there is a risk of contact with the eyes, use safety goggles or other means of protection. If necessary, refer to national standards or to the EN 166 standard.</p> <p>When there is a risk of contact with the skin, use hydrocarbon-resistant, felt-lined gloves. Experience shows that gloves made of Nitrile rubber or PVA (Polyvinyl alcohol) are adequate for this use. Gloves made of PVC can be used for limited periods. Gloves made of Neoprene or natural rubber (latex) have inadequate resistance. Use gloves respecting all the conditions and within the limits set by the manufacturer. Replace gloves immediately in case of cuts, holes or other signs of damages or degradation.</p> <p>If necessary, refer to the EN 374 standard.</p>
Hygiene measures:	<p>Avoid contact with skin and eyes Do not breathe vapours or mists. Do not clean hands with dirty or oil-soaked rags. Do not keep dirty rags in the overall pockets. Do not drink, eat or smoke with dirty hands. Wash hands with water and soap, do not use solvents or other irritant products which have a defatting effect on the skin. Do not re-use clothes, if they are still contaminated.</p>

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## 9. Physical and chemical properties (typical values).

Appearance:	Clear and bright liquid (ASTM D 4176/1)
Odour:	Characteristic
Colour	(ASTM D 1500)
Density a 15°C:	0.8742 Kg/l (ASTM D 4052)
Boiling point/range:	> 200 °C at 10 mmHg (ASTM D 1160)
Vapour pressure:	$1 \times 10^{-3}$ hPa (ASTM D 1160)
Viscosity at 40°C	cSt (ASTM D 445)
Solubility in water:	Insoluble in water.
pH :	Not applicable
Pour point:	-21 °C (ASTM D 97)
Flash point :	120 °C (ASTM D 92)
Auto-ignition temperature:	> 300 °C (DIN 51794)
Explosion limits:	
- Lower:	Not determined.
- Upper:	Not determined.
Partition coefficient (P o/w):	Not determined.
DMSO extract of base stock:	< 3 % wt (IP 346/92)

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## 10. Stability and reactivity.

Thermal decomposition products:	COx, HC.
Stability:	Stable product
Hazardous reactions:	None

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Materials to avoid: Strong oxidants

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## 11. Toxicological information.

Oral toxicity (rat): LD50 greater than 2000 mg/kg (estimated from the composition).  
Dermal toxicity (rabbit): LD50 greater than 2000 mg/kg (estimated from the composition)  
Inhalation toxicity (rat): LC50 greater than 5 mg/l/4h (estimated from the composition).  
Skin sensitization: The product is not classified as a sensitizer according to the criteria set by the EU.  
Other information: Not irritating to eyes and skin.  
Minor irritation may occur after prolonged or repeated contact, especially if normal hygienic rules are not respected.  
None of the components of this product are listed as carcinogen by NTP, IARC, OSHA, EU or others.

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## 12. Ecological information.

General information: Handle according to general working hygiene practices to avoid pollution and release into the environment.  
Biodegradation: The most significant constituents of the product should be considered as "inherently biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions.  
Toxicity for aquatic organisms: This product is not soluble in water. It floats on water and forms a film on the surface. The damage to aquatic organisms is of mechanical kind (immobilization and entrapment) No specific environmental data are available for this product. According to the components, and by comparison with other products of the same type and composition, it is expected that this product has a toxicity for aquatic organisms > 100 mg/l, and must not be regarded as dangerous to the environment.  
Other data: This product has no specific properties for inhibition of bacterial activity. In any case, wastewater containing this product should be treated in plants that are suited for the specific purpose.  
WGK class (Germany): 1.

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## 13. Disposal considerations.

Disposal of product: Do not dispose of the product, either new or used, by discharging into sewers, tunnels, lakes or water courses. Deliver to a qualified official collector.  
European Waste Catalogue Code: 13 02 06 (Ref: 2001/118/CE) This code is only a general indication, and takes into account the original composition of the product and its intended use. The user has the responsibility of choosing the right code, considering the actual use of the product, alterations and contaminations.  
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.

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## 14. Transport information.

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

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## 15. Regulatory information.

In accordance RD 255/2003, Rules and Regulations for Dangerous Preparations, the preparation is labelled as follows:

### R Phrases:

R43 May cause sensitisation by skin contact.

### S phrases:

S24 Avoid contact with skin.

S37 Wear suitable gloves.

S60 This material and its container must be disposed of as hazardous waste.

### Contains:

Sulfonato neutro de Calcio

### **Applicable laws and regulations:**

National laws on classification and labelling of dangerous substances/preparations (Adoption of Directive 67/548/CE and subsequent Adaptations to Technical Progress - ATP, and Directive 1999/45/CE). Relevant national laws on health and safety on the workplace. National adoption of Directives 89/391/CEE, 89/654/CEE, 89/655/CEE, 89/656/CEE, 90/269/CEE, 90/270/CEE, 90/394/CEE, 90/679/CEE, 93/88/CEE, 95/63/CE, 97/42/CE, 98/24/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 and re-use of waste materials. Relevant national laws on prevention of water pollution. Relevant national laws on health and safety on the workplace.

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## 16. Other information.

General indications: Avoid excessive or improper use.

Other uses of the product: Do not use the product for any purposes that have not been advised by the manufacturer. In that case, the user could be exposed to unforeseeable dangers.

Complete text of the R phrases that appear in section 3:

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

R62 Possible risk of impaired fertility.

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

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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The information given in this Safety Data Sheet has been drafted in accordance with REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

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This information relates only to the specific product and may not be valid if the product is used in combination with any other material or in any process. This information is all that we have available on the review and publishing date of this sheet, on the basis of reliable data and in accordance with current legislation. That stated above does not necessarily imply that the information is of a fully comprehensive nature in all cases. It is the responsibility of the user to determine the validity of this information for the application of the same in each case; nothing in this document will lessen this responsibility.

*This Safety Sheet has been checked and printed up to date 16/02/2009.*

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