

PRODUCT SAFETY DATA SHEET

Product:

AGIP FORMULA C1

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SDS No.: 0257 KE

Version: 1

Date: 13.12.2006

Supersedes SDS dated:

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

Identification of the substance or preparation: AGIP Formula LL C1 (SAE 5W-30)
Type of product and use: Lubricant for internal combustion engines
Type of product and use: Agip Benelux B.V.
Address and telephone no.: Eemhavenweg 50 – Rotterdam – The Netherlands
TEL. (+ 31) 10 - 2941555 FAX (+ 31) 10 - 4294594

2. Composition/information on ingredients.

Chemical characterisation:
Description: Mixture containing severely refined base oils and additives
Dangerous components: Succinic acid derivative (R53) 2,5-5%
Fatty acid polymer (Xi ; R38) 1 – 2,4%
Additional information: The wording of the cited danger notes has to be gathered from the chapter 16.

3. Hazards identification.

Hazard designation: By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept.
Information pertaining to particular dangers for man and environment: The product is a water hazardous material, see WGK information.
Contains Ca sulfonate. May produce an allergic reaction.
Classification system: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The classification results from the Conventional Method according to RL 1999/45/EG, attachment II respectively III concerning specific data of compounds.

4. First aid measures.

General information: Change clothes and shoes contaminated or soaked by the product. Never put rags contaminated by the product into cloth-pockets.
Skin contact: Wash thoroughly with soap and water. Generally the product is not irritant.
Eye contact: Rinse opened eye for several minutes under running water, if irritation persists, seek medical attention.
Ingestion: In case of persistent symptoms consult doctor.
Inhalation: Supply fresh air; consult doctor in case of symptoms (eventually by inhaling the overheated product).

5. Fire fighting measures.

Extinguishing media:
- Suitable: Carbon dioxide, extinguishing powder or water spray (fog). Fight larger fires with water jet or alcohol-resistant foam. Use fire-fighting measures that suit the environment.
- Not to be used: Water with a full water jet.
Special protective equipment: In case of fire fighting wear air-recycling independent breathing apparatus.

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6. Accidental release measures.

Person-related safety precautions:	Particular danger of slipping on leaked/spilled product.
Environmental protection measures:	Do not allow to enter drainage system, surface or ground water. Prevent from spreading (e. g. by binding or oil barriers). Do not allow to enter ground/soil.
Measures for cleaning/collecting:	Absorb with liquid-binding material such as sand, diatomite, acid binders, universal binders or sawdust. Dispose of the material collected according to regulations.
Additional information:	No dangerous materials are released.

7. Handling and Storage.

Handling:	
Information for safe handling:	Prevent formation of aerosols.
Information about protection against explosions and fires:	Do not heat up to temperatures close to the Flashpoint.
Storage:	
Requirements to be met by storerooms and containers:	No special requirements.
Information about storage on one common facility:	Store away from foodstuffs.
Further information about storage conditions:	The regulations of the WHG (water conservation regulation), the local water regulations and the regulation about the Regulations of Hazardous Materials (VAWS, of the particular local version) have to be observed
Storage class:	LGK (according to VCI concept): 10 - flammable liquids
Classification according to Operational Safety Ordinance:	--

8. Exposure controls/personal protection.

Additional information about design of technical systems:	No further data; see item 7.
Components with critical values that require monitoring at the workplace:	The product itself does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information:	The lists that were valid during the compilation were used as basis.
Personal protective equipment:	
General protective and hygienic measures:	The usual precautionary measures should be adhered to in handling chemicals and mineral oil products. Avoid close or long term contact with the skin. Use protective skin ointment for preventive skin protection. Do not carry cleaning cloths impregnated with the product in trouser pockets.
Breathing equipment:	Not required.
Hand protection:	Protective gloves and protective skin ointment. The selection of the suitable gloves is not only dependent on the material but also on further quality aspects and different from manufacturer to manufacturer. Since this product is a preparation of different materials, the resistance of the gloves is not calculable and therefore has to be tested before use. Penetration time of the glove material: The exact penetration time of the gloves has to be requested from the manufacturer and has to be kept.
Eye protection:	Safety glasses recommended during refilling.
Body protection:	Protective work clothing.

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9. Physical and chemical properties (typical values).

Appearance:	liquid
Odour:	characteristic
Colour:	brown
Density at 15°C:	0,85 g/cm ³ (DIN 51 757)
Boiling point/range:	not applicable
Viscosity at 100 °C:	55 mm ² /s (DIN 51 562)
Solubility in/Miscibility with water:	not respectively hardly miscible
Pourpoint:	not determined
Flashpoint:	230 °C (ISO 2592)
Decomposition temperature:	not determined
Auto-ignition temperature:	not self-ignitable
Explosion hazard:	not explosive

10. Stability and reactivity.

Thermal decomposition/ conditions to be avoided:	No decomposition if used according to specifications.
Dangerous reactions:	No dangerous reactions known.
Dangerous products of composition:	No dangerous decomposition products known.

11. Toxicological information.

Acute toxicity:	
Primary irritant:	
- on the skin:	No irritant effect known.
- on the eye:	No irritant effect known.
- sensitisation:	No sensitising effect known.
Additional toxicological information:	The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12. Ecological information.

Behaviour in environmental systems:	
Mobility and bioaccumulation potential:	No data available.
Ecotoxicological effects:	
Behaviour in sewage processing plants:	The product swims on the water surface.
General notes:	
Water hazardous class:	WGK 2 (classification according to VwVwS 1999): hazardous for water Do not allow product to reach ground water, water bodies or sewage system. Drinking water endangering already at the leakage of small quantities to underground.

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13. Disposal considerations.

Disposal of product:

Recommendation:

Smaller quantities have to be disposed in line with local regulations. Has to be disposed or reprocessed under consideration of the waste regulation as waste oil. Waste and remainder material ordinance has to be observed

When storing mineral oil products, ensure that the categories for waste oil and mixing instructions are observed. Basis for the disposal is the Act for Promoting Closed Substance Cycle Waste Management and Ensuring Environmentally Compatible Waste Disposal (KrW-/AbfG). Waste disposal covers the utilisation and the elimination of waste in which the utilisation has priority. The law and his ordinances regulate details on the disposal and supervision. Please contact an authorised disposal subject business.

European Waste Catalogue EWC:

(still has to be co-ordinated with the disposer about waste origin)

13 02 05 - not chlorinated machine, gear and lubrication oils based on mineral oil

Uncleaned packaging:

Recommendation:

Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning. Small one-way packaging have to be disposed according to the local regulations (packaging directions).

EWC 15 01 02 resp. 15 01 04

14. Transport information.

RID/ADR:

Does not belong to any class of danger

ICAO/IATA:

Does not belong to any class of danger

IMO-IMDG code:

Does not belong to any class of danger

15. Regulatory information.

Designation according to EU guidelines: Observe the normal safety regulations when handling chemicals or mineral oil products. The product is not subject to identification regulations under EC Directives (1999/45/EG) and Ordinance on Hazardous Materials incl. RL 2004/73/EC (29. ATP). The concentrations of the dangerous compounds, which are possibly specified under item 2, are not above the value for classification according to RL 1999/45/EG.

Special designation of certain

preparations:

Contains CA sulfonate. May produce an allergic reaction.

National regulations:

Classification according to VbF:

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German Water Hazardous Class:

WGK 2 (classification according to VwVwS 19999): hazardous for water

16. Other information.

Laboratory tests on animals have shown that engine oils undergo changes during usage and risks increase, compared with fresh oils.

Therefore it is very important to follow the above mentioned precautionary measures also with used oils.

This Safety Data Sheet conforms to the dispositions of the Directive 91/155/EC and TRGS 20.

R-sets in item 2:

R38 Irritating to skin

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

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.

The informations in this sheet are according to our best knowledge at the date of printing.

This Safety data Sheet has been checked and printed on 13.12.2006.

End of document.

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