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Revised edition no : 1

Date : 16 / 12 / 2010

Supersedes : 0 / 0 / 0

Xado Atomic Oil 5W-50 SL/CF

V197400009

Type of product	: Lubricant.
Identification of the product	: Oily liquid. : Xado Atomic Oil 5W-50 SL/CF
Trade name	: Consumers, Industrial, Professional use.
Use Intended use	
Intended use	: engine oil - synthetic See product bulletin for detailed information.
Responsible for placing on the market	: Xadolube B.V. Energiestraat 12 7442 DA Nijverdal NETHERLANDS tel: +(31) (0)548 615165 ; fax: +(31) (0) 548 610195 e-mail: r.hilgers@eurol.com (Ruud Hilgers)
Emergency phone nr	: See address above. (Monday to Friday: 8:00 - 17:00)
HAZARDS IDENTIFICATION	
Classification system	: The classification is according to the latest editions of the EU-lists, and extended company and literature data.
Hazard classification	: This preparation is classified as dangerous according to Directive 1999/45/EC as amended and adapted.
Risk Phrases	: R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in th aquatic environment.
Other hazards	
Human health hazards	: Contains : Calcium long chain alkaryl sulfonate. May produce an allergic reaction. Prolonged or repeated contact may cause skin to become dry or cracked.
Physical/chemical hazards	: None.
Environmental hazards	: This product floats on water and may affect the oxygen-balance in the water.
Primary route of exposure	: Skin and eyes contact.
Effects and symptoms	
- Inhalation	: At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition product occurs.
- Skin contact	 Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis. High-pressure injection under skin may cause serious damage.
- Eye contact	: Unlikely to cause more than transient stinging or redness if accidental eye contac occurs.
- Ingestion	: Bad taste. Unlikely to cause harm if accidentally swallowed in small doses, thoug larger quantities may cause nausea and diarrhoea.
Note	: USED ENGINE OILS: Used engine oil may contain hazardous components which have the potential to cause skin cancer.See Toxicological Information, section 11

Substance / Preparation	: Preparation.
Chemical characterization	: Chemically modified base oil and proprietary performance additives.
Components	: This product is hazardous.

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Composition			7/548/EEC /				d within the meaning of Community workplace
Substance name		Conc. (wt%)	CAS No	EC No	Annex No		Classification
Polyolefin polyamine succinimide, polyol	:	Between 1 and 5 %					R53
Calcium branched chain alkyl phenate sulfide	:	Between 1 and 5 %		291-829-9			R53
Zinc alkyldithiophosphate	:	Between 1 and 5 %	68649-42-3	272-028-3			Xi; R41 N; R51-53
Polyalkyl arylamine	:	Between 0.1 and 1 %		270-128-1			N; R51-53
Branched alkylphenol and Calcium branched alkylphenol	:	Between 0.1 and 1 %					Repr. Cat. 3; R63 Xi; R38 N; R50-53
Other information Text of R-Phrases			oil contains le s NOT class	ess than 3%	6 DMSO-extr 45: "May cat	act meas	ured according IP 346,
4 FIRST AID MEASURES							
- General information		: Seek medi	cal attention	if ill effect of	develops.		
- Inhalation		: Allow the v Assure fres	ictim to rest. sh air breathi	ng.			
	 Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed. 						
- Skin contact		water, follo High press	wed by warn ure injection	n water rins of product	se.		
- Skin contact - Eye contact		water, follo High press product is r : Check for a Ensure ade	wed by warn ure injection not surgically and remove equate flushi y with plenty	n water rins of product removed. contact lens ng of eyes	se. into the skin ses. by separatin	may lead g eyelids	•

Note to physician

5 FIRE-FIGHTING MEASURES

Specific hazards	: When exposed to heat, may decompose liberating hazardous gases.
Hazardous combustion products	: Metal oxides. CO, CO2, POx, NOx, SOx, H2S. Under fire conditions, hazardous fumes will be present.
- Suitable extinguishing media	: Water fog. Dry powder. Carbon dioxide. Foam.
- Unsuitable extinguishing media	: Do not use a heavy water stream.
Surrounding fires	: Use water spray or fog for cooling exposed containers.
Special procedures	: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

: Treat symptomatically.



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5 FIRE-FIGHTING MEASURES (continued) Special protective equipment for fire : Do not enter fire area without proper protective equipment, including respiratory fighters protection. Use self-contained breathing apparatus. **6 ACCIDENTAL RELEASE MEASURES** Personal precautions : When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required. Spill area may be slippery. Equip cleanup crew with proper protection. : Stop the flow of material, if possible without risk. Dike spilled material, where this is **Environmental precautions** possible. Recover the cleaning water for later dis posal. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. **Clean up methods** : Take up large spills with pump or vacuum. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). - on water : On water, recover/skim from surface and pour out in disposal container. - on soil Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers. : Sweep up and remove to a suitable, clearly marked container for disposal in Contaminated product, soil, water accordance with local regulations.

7 HANDLING AND STORAGE

General Precautions in handling and storage	 Handle in accordance with good industrial hygiene and safety procedures. Avoid contact with skin and eyes.
Storage	 Always keep in containers of same material as the original one. Do not store in open or unlabelled containers. Store in tightly closed, properly ventilated containers away from heat, sparks, open flame.
Storage life	: 5 years.
Storage - away from	: Strong oxidizing agents. Strong acids.
Handling	 Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Wash clothing before re-using. Where contact with eyes or skin is likely, wear suitable protection.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Industrial hygiene	 Do not put the product-soaked rags into the pockets of working clothes. Do not use cloths stained with the product to dry hands. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Wash clothing before re-using. When using, do not eat, drink or smoke.
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8 EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

- Respiratory protection	na WI pro Re tim Pro ca A o 65	spiratory protective equipment tural or local exhaust ventilatio here excessive vapour, mist, or tection equipment. spiratory protective equipment e it is worn. by ided an air-filtering/air-purify in be used for mist or fume. Use combination filter for particles a °C) may be required if vapour of but temperature. Use filter ty	n to control exposur r dust may result, us t must be checked to ing respirator is suit e filter type P or con and organic gases a or abnormal odour is	e. se approved respiratory o ensure it fits correctly each able, a filter for particulates nparable standard. Ind vapours (boiling point > s also present due to high
- Hand protection	Th is i Th	case of repeated or prolonged e gloves should be replaced in recommended to use preventa e protection glove should be te ength, product compatibility, an	nmediately in case of tive skin protection ested for its specific	of damage or signs of wear. It (skin cream). suitability (e.g. mechanical
Material	Thickness (mm)	Breakthrough time (min)	Level	according
Nitril.	0.4	480	6	EN 374
Neoprene.(chloroprene)	0.65	60	3	EN 374
- Eye protection	Ey	fety glasses with side shields. e protection should only be ne ayed.		
- Skin protection	co Av If r sh	special clothing/skin protectio nditions of use. oid repeated or prolonged skin epeated skin contact or contar ould be worn.	i contact. nination of clothing	
Environmental Exposure	Controls : Se	e Heading 6. See Heading 12.		

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state at 20 °C	: Oily liquid.
Colour	: Brown.
Odour	: Characteristic.
Pour point [°C]	: < -42
Boiling point [°C]	: > 280
Density (kg/l) @ 20 °C	: 0.85
Vapour pressure [kPa @20°C]	: < 0.01
Relative vapour density (air=1)	: > 1
Viscosity at 40°C [mm2/s]	: 75 - 150
Viscosity at 20°C [mm2/s]	: 250 - 500
Solubility in water	: Not miscible with water.
Flash point [°C]	: > 200
Auto-ignition temperature [°C]	: > 240
Explosion limits - lower [%]	: 0.6
Explosion limits - upper [%]	: 7
Log P octanol / water at 20°C	: > 3



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9 PHYSICAL AND CHEMICAL PROPERTIES (continued)		
Evaporation rate (BuAc=1)	: < 0.1	
10 STABILITY AND REACTIVITY		
Stability and reactivity	: Stable under normal conditions.	
Hazardous decomposition products	 On exposure to high temperature, may decompose, releasing toxic/flammable vapours. CO, CO2, POx, NOx, SOx, H2S. Metal oxides. 	
Hazardous reactions	: None under normal conditions.	
Hazardous polymerization	: Will not occur.	
Materials to avoid	: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.	
Conditions to avoid	: See Heading 6. See Heading 7. See Heading 15.	
11 TOXICOLOGICAL INFORMATION		
Basis for Assessment	: Toxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the toxicology of similar products.	
Toxicokinetics, metabolism and distribution	: No data available.	
Acute effects (acute toxicity, irritation and corrosivity)	n	
- Acute toxicity	: At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.	
On product		
- Irritation	: Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.	
- Corrosivity	: No data available.	
Sensitisation CMR effects	: Contains : Calcium long chain alkaryl sulfonate. May produce an allergic reaction.	
- Carcinogenity	: Unknown.	
- Mutagenicity	: Unknown.	
- Reproductive and Developmental Toxicity	: Unknown.	
Repeated dose toxicity	 Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis. Repeated dermal contact with material can lead to defatting of the skin. 	
- Other	 The base oil contains less than 3% DMSO-extract measured according IP 346, therefor it is NOT classified as T/R45: "May cause cancer" (Note L). High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed. 	



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2 ECOLOGICAL INFORMATION	
Basis for Assessment	 Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.
Ecological effects information	
On product	: This product floats on water and may affect the oxygen-balance in the water.
Ecotoxicity	: No data available.
On product	
Bioaccumulative potential	: This product is not expected to bioaccumulate through food chains in the environment.
Persistence - degradability	: Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.
VOC -(g/l) (Volatile organic compounds)	: None.
Mobility	: Not miscible with water. Spillages may penetrate the soil causing ground water contamination.
Results of PBT assessment	: Unknown.
Other Adverse Effects	: Unknown.

13 DISPOSAL CONSIDERATIONS

General	: Avoid release to the environment. Dispose of this material and its container at hazardous or special waste collection point.
Industrial waste number	 13 02 06 - Synthetic engine, gear and lubricating oils. (Hazardous waste pursuant to Directive 91/689/EEC on hazardous waste)
Contaminated packaging	: Dispose in a safe manner in accordance with local/national regulations.
Special precautions	 After use, this oil must be sent to a used oil collecting location. Every mixture with foreign substances such as solvents, brake- and cooling liquids is forbidden. Incorrect disposal of used oil endangers the environment. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly. When not empty dispose of this container at hazardous or special waste collection point.

14 TRANSPORT INFORMATION

General information

: Not classified as hazardous for transport (ADR/RID, ADNR, IMDG, ICAO/IATA)

15 REGULATORY INFORMATION	
EC Classification	: This preparation is not classified as dangerous according to Directive 1999/45/EC as amended and adapted.
Symbol(s)	: None.
R Phrase(s)	: R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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Prepared by

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SAFETY DATA SHEET

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15 REGULATORY INFORMATION (continued)	
Further Phrases	: Contains : Calcium long chain alkaryl sulfonate. May produce an allergic reaction.
 National provisions 	
Germany	: WGK (Water-endangermant class) : 2
16 OTHER INFORMATION	
Recommended uses and rest	rictions : Specifications and technical informations on the product may be obtained by your dealer.
List of relevant R phrases (he	 ading 3): R38: Irritating to skin. R41: Risk of serious damage to eyes. R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the

 aquatic environment.

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

 R62 : Possible risk of impaired fertility.

 Revision
 : 16 / 12 / 2010

 Revision - See : *

The contents and format of this SDS are in accordance with REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

: Ruud Hilgers

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