PRODUCT NAME: XENUM MoX-G
PRODUCT CODE: XP0002
HAZARD LABELING (EC) PHRASES R- AND S-: Non applicable
TRANSPORT LABELING: Non applicable

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Product name: Xenum MoX-G

Product code: XP0002

Commercial use: Lubricant gear oil additive.

Supplier:
SWF
Vissersstraat 10 B31
B – 1800 Vilvoorde
Tel: +32 9 223 22 10 Fax: +32 9 225 11 16

Contact for SDS: e-mail: **info@xenum.eu**

Emergency telephone number: +32 479 82 08 08

2. COMPOSITION/INFORMATION ON INGREDIENTS

Preparations: Complex mixture of ester lubricants, graphite and ceramic compounds.

Components contributing to hazards: None to our knowledge in normal use.

Impurities contributing to hazards: None.

Reach: All components are in line with Reach preregistration and registration.

3. IDENTIFICATION OF HAZARDS

Principal hazards: (See also sections 11 and 12)
Harmful effects on health: under normal use conditions, this product does not pose an acute risk of poisoning. It is neither an irritant to skin or eyes, nor a sensitising agent.
Physical and chemical hazards: no fire or explosion risk.

Environmental hazards: Experiments carried out on similar products indicate that it poses little danger to aquatic and land born life. However, regulations forbid oils and lubricants being disposed of directly into the environment.

Specific hazard: None to our knowledge in normal use.

Emergency overview: In case of skin contact by high-pressure jet, there is a risk of introduction into the body. The patient must be sent to a hospital even if there is no visible wound.

Classification system: The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. The classification was made according to the latest editions of the EC-lists, and expanded upon from company and literature data.

4. FIRST AID

In serious accidents, call a doctor or medical emergency services.

ADVICE IN CASE OF:

Inhalation: Risk only exist for oils where there has been aerosol formation or where the product has been heated to a high temperature. If then becomes necessary to establish if airways or gastro intestinal irritation has occurred. In cases of exposure to high concentrations of vapours, smoke or aerosols, remove the patient to fresh air and keep warm and quiet. Consult a doctor in case of complaints.

Skin contact: After skin contact, wash with plenty of soap and warm water.

Eye contact: Wash immediately with copious quantities of water, holding the eyelids open for at least 15 minutes. If symptoms persist, obtain medical help.

Ingestion: Special treatment not usually necessary. Do not induce vomiting to prevent aspiration into the respiratory passages. Dilute stomach contents with plenty of water.

Aspiration: If there is suspicion that aspiration has occurred, after vomiting for example, send immediately to a hospital.

NOTES TO A PHYSICIAN: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flashpoint: >200°C according ASTM D-92.

Extinguishing media: Suitable: foam, CO^2, powder.
Not suitable: water jet.

Specific hazards: (in case of fire or explosion): incomplete combustion and thermal decomposition produce gases which are more or less harmful such as carbon monoxide, carbon dioxides, various hydro carbons. In these cases inhalation is very dangerous.

Special fire fighting requirements: The use of self-contained breathing apparatus is mandatory.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid skin and eye contact. Wear gloves, goggles and an apron impervious to hydrocarbons in case of exposure. Surfaces are made slippery by the spread of this product.

Environmental precautions: Installations should be designed to take all necessary precautions to avoid pollution of water and soil. To minimise risk of pollution, sewers should be protected from ingress of spillage. In case of uncontrolled spread, warn the appropriate authorities that the situation cannot be quickly and efficiently controlled. Protect sensitive areas of the environment such as water resources.

Clean up methods: Recovery: use physical means (pumping, separation, skimming etc.) contain spillage and recover by means of sand or other inert absorbent materials. Do not put down the sewer.
Disposal: contaminated material should be handled by an authorized waste collector.

7. HANDLING AND STORAGE

HANDLING

Technical measures: Prevention of worker exposure: in case of possible formation of vapour, mists or aerosols, assure adequate ventilation. Adopt all practicable measures to reduce the risk of exposure, particularly to oils in service and used oils. Keep away from other combustible materials, store the product away from food and drink.
Prevention of fire and explosion: Open containers may hold inflammable or explosive vapour. Rags impregnated with the product, paper or material used to mop up spillage, present a fire risk. Do not allow these articles to accumulate dispose them safely immediately after use.

Precautions: Prolonged and repeated contact with the skin can provoke skin irritation, which is accentuated by small cuts or chaffing by soiled clothing – guard against splashing: after contact with the skin wash with warm water – do not breath vapours, mists or fumes – while using, do not eat, drink or smoke.

Handling advice: No special requirements.

STORAGE

Storage conditions: Recommendations: Store at ambient temperature away from water and moisture. Keep containers closed when not in use. When designing installations, take all measures to avoid pollution of soil and water.

Avoid: non-weatherproof storage.

Incompatible products: Dangerous reactions with strong oxidants.

Packaging material: Recommendation: Keep product in its original packaging. If it is necessary to transfer the material, ensure that all the required labels are on the new packaging.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures to reduce exposure: If appropriate, use the product in good ventilation.

Other measures: Control parameters: Exposure limits to oil mists: limit value 10mg/m³ during 15 minutes. Average exposure limit to oil mists: 5 mg/m³ during 8 hours.

Personal protection equipment: Breathing equipment: Not necessary if room is well ventilated.

Protection for the hands: impervious gloves.(nitrile rubber, NBR)
Protection to the eyes: goggles in case of risk of splashing.
Protection to the skin and other parts of the body: where necessary, wear mask, boots, protective clothing, safety shoes for the handling of drums.

Hygiene methods: Avoid prolonged and repeated contact with the skin, particularly with oils in use or used oils. After contact with the skin, wash with soap and warm water. Do not use abrasive products, solvents or fuels for cleaning. In case of contact with the eyes, wash immediately with copious quantities of water, holding the eyelids open for at least 15 minutes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Fluid.
Colour: Black.
Odour: Mild character
Ph: 100 g/l N.A

Specific temperature for change of physical state:	Pour point: -20°C. Boiling point: >200°C.
Self ignition temperature:	**>** 300°C
Flash point:	>200°C following ASTM D-92.
Explosive characteristics:	Product does not present an explosion hazard.
Inflammable limits in air:	Product is not self-igniting.
Vapour pressure:	Negligible.
Density:	Around 890 kg/m³ at 20° C.
Solubility:	In water: Not miscible. In organic solvents: Soluble in a large number of usual solvents.
Viscosity:	Around 170 cSt

10. STABILITY AND REACTIVITY

Stability:	Product is stable at normal use and storage temperatures in handling and use.
Dangerous reactions:	Conditions to avoid: Heat (temperature greater than the flash point), sparks, source of ignition, flames and static electricity. Materials to avoid: strong oxidants and strong acids. No dangerous reactions known.
Dangerous products of decomposition:	Products of incomplete combustion or thermal degradation produce more or less toxic gases such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

11. TOXICOLOGICAL INFORMATION

Following from the toxicological data of the individual components and adhering strictly the regulatory criteria, the product should have these characteristics:

Acute toxicity:	Inhalation: unlikely to pose a hazard under normal working conditions. Skin contact: LD 50 > 10 g/kg dermal rabbit. Ingestion: LD 50 > 5 g/kg oral rat.
Local effects:	Inhalation: High concentrations of vapour or aerosols could be irritating to the respiratory passages and mucus membranes. Skin contact: depending on the case. Eye contact: depending on the case.
Sensitisation:	Skin contact: depending on the case.
Chronic or long-term toxicity:	Inhalation: vapours and aerosols can be irritating to respiratory passages and mucus membrane. Skin contact: following prolonged or repeated exposure, or contact with soiled clothes, may lead to skin irritation.

Additional toxicological information: 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.

Specific effects: Non carcinogenic: this product has been formulated from lubricants and other constituents, which are considered to be non-carcinogenic.

12. ECOLOGICAL INFORMATION

Mobility: Earth: taking account of its physio-chemical properties, the product in general has mobility in the soil.
Water: not miscible.

Persistence and degradability: According to the case, in the absence of experimental data on the finished product. However, the oil fraction of the unused product is intrinsically biodegradable. Certain components can be non-biodegradable.

Eco-toxicity: It is considered as a low hazard for aquatic organisms.

General note: Water hazard class 2 (German Regulation 17.05.1999): hazardous for water.

13. DISPOSAL CONSIDERATIONS

Wastes or refuse: Appropriate methods for elimination: the only ones authorized are registered waste recovery and recycling or incineration in approved installation.

Handling precautions: Used containers: appropriate disposal method: send to an authorized waste disposal contactor. Refer to local regulations.
Local disposal: refer to local regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14. TRANSPORT INFORMATION

This product is not classified as being hazardous for all transport classifications.

15. REGULATORY INFORMATION

Hazard labelling: for use; or EEC: R- and S- phrases: not classified.
Also refer to local regulations for code of working practice, TLV 's, etc.

The product is not subject to identifications regulations under EC Directives and the Ordinance on Hazardous Materials.

16. OTHER INFORMATION

Date of circulation of this data sheet: 21/05/2008.