

MATERIAL SAFETY DATA SHEET

(meets the 1907/2006 directives)

1 – IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

- **IDENTITY OF THE SUBSTANCE OR PREPARATION**

4064-GB ENGINE RESTORER with ® - 250 ml

400-GB ENGINE RESTORER with ® - 400 ml

1000-GB ENGINE RESTORER with ® - 1000 ml

- **USE OF THE SUBSTANCE/PREPARATION**

Motor oil additive (4 cycle engines)

- **COMPANY IDENTIFICATION :**

NAME	BIRAL LUBRICANTS
ADDRESS	Rue de l'Echauffourée 1 7700 MOUSCRON – Belgium
PHONE	+32 (0)56 33 38 40
FAX	+32 (0)56 33 38 07
MAIL	biral.lubricants@laposte.net
WEBSITE	www.restore.fr

- **EMERGENCY PHONE NUMBER :**

ANTI-POISON CENTER (BRUSSELS – BELGIUM) + 32 / (0)70 245 245

2 – HAZARDS IDENTIFICATION

- **CLASSIFICATION AS REGARDS TO CLP 1272/2008 DIRECTIVE**

- Skin Sens 1B
- Aquatic Chronic 3

- **LABELLING**

Warning mention : Caution

Pictogram :



Hasard Statements :

- H317 : May cause an allergic skin reaction.
- H412 : Harmful to aquatic life with long lasting effects.

Precautionary Statements :

- P102 : Keep out of reach of children.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.

- P280 : Wear protective gloves/protective clothing.
- P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
- P273 : Avoid release to the environment.

- **OTHER DANGERS**

3 – COMPOSITION/INFORMATION ON INGREDIENTS

NAME	CAS N°	EGINICS N°	N° REACH	MINI/MAXI	SYMBOL	R PHRASES
Mineral Oil	-	-	-	90%	Non classified	
Calcium Sulfonate	61789-86-4	263-093-9	01-2119488992-18-xxxx	3%	Skin Sens 1 B	H317
Silver	7440-22-4	231-131-3	-	0.0002%	Aquatic Acute 1 Aquatic Chronic 1	H400 (M=1000) H410 (M=1000)

4 – FIRST AID MEASURES

- **IN GENERAL**

Check the vital functions
 Unconscious: maintain adequate airway and respiration
 Respiratory arrest: artificial respiration or oxygen
 Cardiac arrest: perform resuscitation
 Victim conscious with laboured breathing: half-seated
 Victim in shock: on his back with legs slightly raised
 Vomiting: prevent asphyxia/aspiration pneumonia
 Prevent cooling by covering the victim (no warming up)
 Keep watching the victim
 Give psychological aid
 Keep the victim calm, avoid physical strain
 Depending on the victim's condition: doctor/hospital

- **INHALATION**

Remove the victim into fresh air
 Laboured breathing : consult a doctor/medical service

- **SKIN**

Wash immediately with plenty of water and soap
 Consult a doctor if irritation persists

- **EYES**

Rinse cautiously with water during several minutes
 Consult an ophthalmologist if irritation persists

- **INGESTION**

Rinse mouth with water
 Do not induce vomiting
 Consult a doctor/medical service if you feel unwell
 Ingestion of large quantities: immediately to hospital

5 – FIRE-FIGHTING MEASURES

- **EXTINGUISH. AGENTS-FIRE FIGHTING INSTRUCTIONS**
RECOMMENDED EXTINGUISHING MEDIA : foam, dry chemical powder, Carbon Dioxide
- **FIRE HAZARDS**
Flammable
Increased fire risks when heated
No direct explosion hazard
- **FIREFIGHTING INSTRUCTIONS**
Cool tanks/drums with water spray/remove them into safety
Solid water jet ineffective as extinguishing medium
- **FULLY PROTECTIVE EQUIPMENT REQUIRED FOR FIREMEN**

6 – MESURES A PRENDRE EN CAS DE DISPERSION ACCIDENTELLE

- **PERSONAL PROTECTION**
Gloves
Face shield
Safety glasses
Protective clothing
Heat/fire exposure: compressed air/oxygen apparatus
- **GENERAL MEASURES**
Mark the danger area
No naked flames
Wash contaminated clothes
Prevent soil and water pollution
- **LEAK**
Contain released substance, pump over in suitable containers
Plug the leak, cut off the supply
Prevent spreading in sewers and waterways
- **DISPOSAL**
WARNING! Product may cause floors to be slippery
Take up liquid spill into a non combustible material e.g.: sand, earth,
Scoop absorbed substance into closing containers
Clean contaminated surfaces with an excess of water
Wash clothing and equipment after handling

7 – HANDLING AND STORAGE

- **HANDLING THE PRODUCT**
Comply with the legal requirements
Steady control of the air concentration
Work in open air / under local air-sucking / ventilation or breathing protection
Observe normal hygiene standards
Clean contaminated clothing
Keep container closed when not in use
Keep away from heat and open flames

- **STORAGE**

Comply with the legal requirements

Keep out of direct sunlight

Authorized packing material : carbon steel, stainless steel, epoxys

Non authorized packing material : low density polyethylene, raw and Butyl rubbers and butadiene/styrene rubbers

- **CONTAINERS – REQUIREMENTS**

Closing

Correctly labeled

Meet the legal requirements

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

- **PARAMETERS CONTROL (VLEP)**

Mineral oil (foam) – CAS 8012-95-1

Belgium, Netherlands :

VLEP – 8 hours : 5 mg/m³

Canada, Spain, US, England

VLEP – 8 hours : 5 mg/m³

VLEP – short term : 10 mg/m³

Denmark VLEP – 8 hours : 1 mg/m³

VLEP – short term : 2 mg/m³

Sweden VLEP – 8 hours : 1 mg/m³

VLEP – short term : 3 mg/m³

- **EXPOSURE CONTROL**

Personal protection measures

Security glasses or face shield

Gloves and protecting clothing

GIVE GOOD RESISTANCE : Neoprene, nitrile rubber

GIVE POOR RESISTANCE : PVA

In case of high gas/vapors concentration: gas mask

9 – PHYSICAL AND CHEMICAL PROPERTIES

- **GENERAL INFORMATION**

ASPECT liquid steel-like bluish oily

ODOUR oil-like odour

COLOUR blue

- **VALUES OF PHYSICAL PROPERTIES**

SPECIFIC GRAVITY 940 kg/m³ @ 15°C

VAPOUR PRESSURE no data

RELATIVE DENSITY 0.940

SOLUBILITY Insoluble in water

DECOMPOSITION TEMPERATURE no data

VISCOSITY 40°C mm²/sec 144

- **HAZARDS FOR EXPLOSION AND FIRE**

BOILING POINT > 300°C

FLASH POINT	220°C
INFLAMMABILITE LIMITS	No data
AUTO-INFLAMMABILITY T°	> 250°C
EXPLOSIVE LIMITS	No data
OXYDIZING PROPERTIES	No data

- **OTHER HAZARDS**

10 – STABILITY AND REACTIVITY

- **REACTIVITY/STABILITY**

Stable under normal conditions
Do not heat above flash-point

- **PROHIBITIONS**

KEEP SUBSTANCE AWAYS FROM : heat sources, ignition source, strong oxidizers, acids, bases

- **HAZARDOUS DECOMPOSITION PRODUCTS**

CO₂, CO in case of incomplete combustion, various hydrocarbons, soot...

11 – TOXICOLOGICAL INFORMATION

- **ACUTE TOXICITY**

Skin LD50 (rabbit) > 2000 mg/kg (Calcium Sulfonate SDS)
LD50 > 2000 mg/kg (Mineral oil SDS)
Oral LD50 (rat) > 5000 mg/kg (Calcium Sulfonate SDS)
LD50 > 2000 mg/kg (Mineral oil SDS)

- **SENSITIZATION**

May produce a skin sensitization according to similar components effects (Calcium Sulfonate SDS)

- **IRRITATION/CORROSIVITY**

No classification (moderately irritant for the eyes, slightly irritant to respiratory organs)

- **CHRONIC TOXICITY**

Vapours and sprays can be irritant for the respiratory organs
Non listed in carcinogenicity class (IARC, EC, TLV, MAK)
Non listed in mutagenicity class (EC, MAK)
Non classified as toxic to reproduction (EC)

- **OTHER INFORMATION**

This product contains mineral oils which are considered as extremely refined and which are not considered as carcinogenic by CIRC. The HAP content of the mineral oils (IP 346 method) is <3%.

12 – ECOLOGICAL PROPERTIES

- **INTENSE TOXICITY**

LC50 (fish, fresh water) between 10 and 100 mg/L (Calcium Sulfonate SDS)
CE50 (invertebrates, fresh water) between 1 and 10 mg/L (Calcium Sulfonate SDS)
CE50 (seaweeds) between 100 and 1000 mg/L (Calcium Sulfonate SDS)
LC/EC50 (aquatic organisms) > 100 mg/l (Mineral oil SDS)

- **CHRONIC TOXICITY**

No data

- **PERSISTENCE AND DEGRADABILITY**

No data

WGK = 2 according to Directive about water risks, dated on 17th May 1999 (Calcium Sulfonate SDS)

- **MOBILITY**

No data

13 – DISPOSAL CONSIDERATIONS

- **WASTES**

Remove to an authorized plant for the destruction, neutralization and elimination of hazardous wastes

14 – TRANSPORT INFORMATION

There are no legislation restrictions as regards land, sea or air transportation of this product

15 - REGULATORY INFORMATION

No chemical security evaluation (as per the 1907/2006 Reach regulations) has been made on the components of this product

16 – OTHER INFORMATION

- **HASARD STATEMENTS**

- H400 : Very toxic to aquatic life.
- H410 : Very toxic to aquatic life with long lasting effects.

- **REVISION**

January 2015 : integrating the CLP classification and updating of section nr 3 (registration number)

- **SOURCES**

Raw material suppliers' data sheets were used as key data sources in the preparation of this safety data sheet

This safety data sheet completes the technical directions for use, but does not replace it.

The data mentioned on these documents are to our knowledge correct on the date of publication and are provided on the assumption that the product will be used as indicated by the manufacturer/supplier. The indication of these safety data, without being considered as complete, helps the user to fulfil his obligations with regard to dangerous substances. The user is obliged to evaluate the product and use it in a safe way in compliance with the effective laws and stipulations. The user has to make sure that all regulations as to human and environmental protection during handling, storage and use of the products are observed.