

RESTORE**MATERIAL SAFETY DATA SHEET**

15.04.2003

1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING :

1.1 : Identification of the substance or preparation :	ENGINE RESTORER & LUBRICANT WITH CSL code: 04064, 00400 and 01000
1.2 : Use of the substance/ preparation :	Chemical description: mixture of mineral oil, dispersant and anti-rust additives, and submicron heterogeneous copper-, silver- and lead-powder particles. Product type: motor oil additive
1.3 : Company/undertaking identification :	BIRAL n.v. Luithagen Haven, 2 G B-2030 ANTWERP (Belgium) Tel : ++ 32 / (0)3.541.37.90 Fax : ++ 32 / (0)3 541.77.87
1.4 : Emergency telephone:	++ 32 / (0)70 245.245 (Anti-Poison Centre – Brussels – Belgium)

2 – COMPOSITION/INFORMATION ON INGREDIENTS :**Hazardous ingredients :**

The product is, in the sense of Directive 1999/45/CE, not classified as being hazardous. Nor does it contain substances covered in the supplement § 2.3 of the Directive 2001/58/CE, that are present in individual concentrations ≥ 1 % weight.

3 – HAZARDS IDENTIFICATION :

The product is not biodegradable.

4 – FIRST AID MEASURES :

In case of doubts or persistent symptoms, call a doctor.
Do not administer anything by the mouth in case of unconsciousness or convulsions.
In certain cases hereafter detailed, an immediate medical examination is required.

Ingestion :	DO NOT INDUCE VOMITING. If patient is conscious, give him 2 glasses of (warm) water. Get immediate medical attention.
Contact with the eyes :	Flush with warm water for at least 15 minutes. Get medical attention if eye-irritation develops or persists.
Contact with the skin :	Wash with soap and warm water. Remove contaminated clothing. Get medical attention if irritation develops.

Inhalation :	Remove exposed person to fresh air if adverse effects are observed.. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be given by a trained person. Seek medical attention if feeling unwell after exposure.
Additional information :	Note to physician : treat symptomatically. We are not aware of delayed effects to be expected after exposure.

5 – FIRE-FIGHTING MEASURES :

Flash point :	220° C
Freezing point :	- 20° C
Suitable extinguishing media :	Foam, CO ₂ , dry chemical powder, polyvalent amulsifier.
Extinguishing media which must not be used for safety reasons :	Jets of water directly on the product on fire, to avoid the fire to disperse.
Firefighting procedures :	It is recommended to wear a self-containing breathing apparatus. Water (vaporised) can be used to cool fire-exposed packaging. Take adequate measures to pick-up used fire-fighting water.
Special fire and explosion hazards :	Toxic fumes, gases or vapours may evolve on burning or exposure to heat. It is recomanded to wear a self-containing breathing apparatus when nearing the fire.

6 – ACCIDENTAL RELEASE MEASURES :

Personal precautions :	Avoid contact with skin, eyes and clothing. Ventilate aerea if spilled in confined space or other poorly ventilated aereas. Wear fully protective suit (see also § 8).
Environmental precautions :	Prevent entry into sewers and waterways. Pick up free liquid for recycling and./or disposal.
Methods for cleaning up :	Residual liquid can be absorbed by inert material (sand, sawdust). (see also § 13)

7 – HANDLING AND STORAGE :

Handling :	Keep containers/bottles closed when not in use. Empty containers/bottles contain product-residues which may exhibit hazards of the product..
Storage :	Only store in the original containers/bottles. Store in fresh, clean, dry and well ventilated aerea.
Specific use(s) :	None.

8 – EXPOSURE CONTROLS/PERSONAL PROTECTION :

Exposure limit values :	None in the E.U.
Exposure controls : Professional exposure controls:	<u>Occupational exposure controls :</u> See § 7 : handling <u>Respiratory protection :</u> Use the product with adequate ventilation. A respiratory protection apparatus is not needed under normal handling conditions. <u>Hand protection :</u> Use nitrile or neoprene gloves. <u>Eye protection :</u> Safety glasses. <u>Skin protection :</u> Long sleeve shirt is recommended.
Exposure controls : Environmental exposure controls:	Prevent entry into sewers and waterways. Pick up free liquid for recycling and/or disposal. Residual liquid can be absorbed by inert material (sand, sawdust).

9 – PHYSICAL AND CHEMICAL PROPERTIES :

9.1 : GENERAL INFORMATION :

Appearance :	Steel-bluish oily liquid
Odour :	Light

9.2 : IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION :

pH :	No information available
Boiling point/boiling range :	> 300° C
Flash point :	220° C
Freezing point :	- 20° C
Flammability :	No information available
Explosive properties :	No information available
Vapour pressure :	No information available
Relative density :	0.940
Water solubility :	No information available
Partition coefficient n-octanol/water :	No information available
Viscosity 40°C mm²/sec :	144
Vapour density :	No information available
Evaporate rate :	No information available

9.3 : OTHER INFORMATION :

none

10 – STABILITY AND REACTIVITY :

Stability :	Stable – do not heat above flash point.
Conditions to avoid :	Do not jet water directly to product on fire

Materials to avoid :	None known
Hazardous decomposition products :	None known

11 – TOXICOLOGICAL INFORMATION :

ACUTE EXPOSURE :

Eye irritation :	Based on actual data, not expected on normal use.
Skin irritation :	Based on actual data, not expected on normal use.
Respiratory irritation :	Mist or vapours provoked by heating of the product may cause irritation of the mucous membranes and the upper respiratory tract..
Dermal irritation :	Although occasional contact with the skin will not provoke any direct irritation, prolonged and repeated contact might decrease the skin and cause a dermatosis.

See also § 4.

CHRONIC EXPOSURE :

We do not have any knowledge of delayed effects to fear after a long-term exposure.

12 – ECOLOGICAL INFORMATION :

Ecotoxicity :	Although the product has not been classified as toxic for the aquatic environment, it is not excluded that, on long term, the product could have inhibitory effects on the activity of some micro-organisms. It is therefore recommended not to allow undiluted product or large quantities of it to reach ground water, water course or sewage systems.
Mobility :	Oily substance
Persistence and degradability :	The product is not biodegradable
Bioaccumulative potential :	Improbable
Other adverse effects :	Spilled product might form a film on the water surface and might provoke harmful effects on aquatic organisms due to the change of the oxygen transfer.

13 – DISPOSAL CONSIDERATIONS :

Use inert material (sand, sawdust) to absorb residual liquid.

The (spilled) product, the residues and the packages should be disposed in compliance with federal, state and local laws.

14 – TRANSPORT INFORMATION :

ADR/VLG :	Not classified
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IMCO/IMO :	Not classified
IATA/ICAO :	Not classified
SHIPPING NAME :	Not classified
N° UNO :	Not classified
EMS/FS :	Not classified
Marine pollutant :	Yes

15 – REGULATORY INFORMATION :

Symbole(s) :	Not relevant
Indication of danger :	Not classified as being hazardous according to the EU legislation.
Precautionary labels R :	22 – Harmful if swallowed / do not take internally
Precautionary labels S :	2 – Keep out of the reach of children

16 – OTHER INFORMATION :

This Material Safety Data Sheet is provided in compliance with the Directive 2001/58/CE of the Commission of the European Communities.

This Material Safety Data Sheet is only destined for industrial/professional use..

Changes regarding the previous edition : general review

The information in this data sheet is given in good faith and is based on our current knowledge. This data sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties.

The data given here only applies when the product is used for its proper application(s).

Since the given information may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the result of its use. The information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the product for his particular purpose.

The BIRAL company nor any other company affiliated to the RESTORE group can be hold responsible for any claim whatsoever regarding the bearing of the data given in this document. Even so, none of the information contained in this document can be interpreted as an authorisation or a recommendation for a use of the product that might be conflicting the protective rights of its industrial ownership.

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