SAFETY DATA SHEET

GRASSO MOLIB 1

(This SDS complies with EU Regulation 878/2020)

SECTION 1 MIXTURE AND COMPANY IDENTIFICATION

1. PRODUCT IDENTIFIER

Product name: MOLIB GRASS 1
Product description: Special lithium grease containing graphite and molybdenum disulphide
Synonyms : n.a.
CAS number : n.a.
EC Number : n.d Index
Number : n.d
REACh Registration
Number : n.d
Chemical Formula : n.d
Molecular Weight : n.d
UFI : n.d

2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE AND RECOMMENDED USES

Intended Use: Lubricating Grease

3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Supplier:
COLUMBIA SOCIETÀ ITALIANA LUBRIFICANTI E AFFINI s.r.l.
Via Burba, 8
16163 GENOA (IT)
Tel. 010 710033

3. COMPETENT TECHNICIAN RESPONSIBLE FOR SAFETY DATA SHEET

sicurezza@columbiamotoroil.com

4. TELEPHONE FOR EMERGENCIES

010 710033

SECTION 2 HAZARD IDENTIFICATION

1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

The product is not classified as hazardous according to Regulation (EC) No.1272/2008 (CLP/GHS) as amended. The product does not present a hazard to man or the environment.

2. LABEL ELEMENTS

Symbols: None
Hazard statements: None
Precautionary statements: None
Special provisions: None

3. OTHER HAZARDS

Chemical and physical hazards: None
Health hazards: None

Environmental hazards: No significant hazards. The product does not meet PBT or vPvB criteria according to Annex XIII of Regulation (EC) No 1907/2006.

SECTION 3 COMPOSITION / INFORMATION ON COMPONENTS

1. SUBSTANCES
Not applicable.

2. MIXTURES

Composition Mixture
Mixture of thickener, mineral, natural or synthetic lubricating oils, additives, also in solid form. In

accordance with Annex II of Regulation (EC) No. 1907/2006 (point 3), the product contains:

Identification		Chemical name/classification			Con
CAS:	Not applicable	**Amines**	**C10-C14-terz-alchile**[1]	Self-assessed	**0,0025 - <0,1 %**
EC:	701-175-2				
Index:	Not applicable				
REAC H:	01-211945679	Regulation 127 /2008	Acute Tox. 2: H330; Acute Tox. 3: H311; Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin		

Substance presenting a health or environmental hazard that fulfils the criteria of Regulation (EU) No 2020/878 for this section.
See sections 11, 12 and 16 for more information on the hazards of substances.

SECTION 4 FIRST AID MEASURES

1. DESCRIPTION OF FIRST AID MEASURES

Inhalation:
This product is not classified as dangerous by inhalation. However, in case of symptoms of intoxication, it is recommended to remove the affected person from the place of exposure, remove to fresh air and keep him at rest. If symptoms persist seek medical attention.

Skin contact:
This product is not classified as dangerous in contact with skin. However, it is recommended in case of skin contact to remove contaminated clothing and shoes, rinse the skin or shower the affected person with plenty of mild soap and water. In case of serious condition, seek medical attention.

Eye contact:
Flush eyes with plenty of water for at least 15 minutes. If the affected person wears contact lenses, they should be removed as long as they are not attached to the eyes, as this could cause additional damage. In all cases, consult a doctor as soon as possible after washing with the safety data sheet of the product.

Ingestion:
Do not induce vomiting, if it occurs naturally keep the head tilted forward to avoid inhalation. Keep the person involved at rest. Rinse mouth and throat, as there is a possibility that they have been damaged by ingestion.

2. MAIN SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED
Acute and delayed effects are indicated in sections 2 and 11.

3. INDICATIONS OF ANY NEED TO CONSULT A DOCTOR AND SPECIAL TREATMENTS
Treatment:
Not applicable

SECTION 5 FIRE-FIGHTING MEASURES

1. EXTINGUISHING MEDIA
Suitable extinguishing media:
Preferably use multipurpose powder extinguishers (ABC powder), alternatively use physical foam or carbon dioxide extinguishers (CO_2).
Unsuitable extinguishing media: Avoid the use of water jets. Use water jets only to cool container surfaces exposed to fire.

2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE
As a result of combustion or thermal decomposition reaction by-products are generated which may be highly toxic and, therefore, may present a high risk to health.

3. RECOMMENDATION FOR FIREFIGHTERS

Depending on the severity of the fire, full protective clothing and self-contained breathing equipment may be required. Have a minimum of emergency equipment or intervention items (fire blankets, first aid kit,
...) in accordance with Directive 89/654/EC.
Additional provisions:
Act in accordance with the Internal Emergency Plan and the Accident and Emergency Response Information Sheets.
emergencies. Eliminate all sources of ignition. In case of fire, cool containers and storage tanks of products that may ignite, explode or trigger a BLEVE explosion as a result of high temperatures. Avoid spilling fire extinguishing agents into water.

SECTION 6 MEASURES IN CASE OF ACCIDENTAL RELEASE

1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

For non direct responders:
Avoid dust formation by spraying the product with water if there are no contraindications. Avoid breathing dust. Wear appropriate protective equipment (including the personal protective equipment listed in section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. These instructions apply to both workers and emergency responders.

For direct interveners:
Wear protective equipment. Keep unprotected persons away. See section 8.

2. ENVIRONMENTAL PRECAUTIONS
In accordance with Community legislation on environmental protection, it is recommended to avoid release of the product and its containers into the environment.

3. METHODS AND MATERIALS FOR CONTAINMENT AND REMEDIATION

It is recommended:
Collect spilled product by mechanical non-sparking means and place in containers for recovery or disposal. Remove the residue with water jets if there are no contraindications. Ensure sufficient ventilation of the place affected by the leak. Check for possible incompatibilities for container material in section 7. Disposal of contaminated material must be carried out in accordance with section 13.

4. REFERENCE TO OTHER SECTIONS

See also section 8 and 13

SECTION 7 HANDLING AND STORAGE

1. PRECAUTIONS FOR SAFE HANDLING

A.- Precautions for safe handling
-Comply with current legislation on the prevention of occupational hazards.
-Maintain order and cleanliness and eliminate by safe methods (paragraph 6).

B.- Technical recommendations for fire and explosion prevention.
-It is recommended to decant slowly to avoid generating electrostatic charges that may involve flammable products.
See section 10 on conditions and materials to avoid.

C.- Technical recommendations to prevent ergonomic and toxicological risks.
-Avoid eating or drinking while handling and then take care to wash with appropriate products.

D.- Technical recommendations to prevent environmental risks
-There is no need for special measures to prevent environmental risks. For further information see section 6.2

2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

A.- Technical measures for storage Store in a cool, dry and ventilated place B.-
General storage conditions
-Avoid sources of heat, radiation, static electricity and contact with foodstuffs. For further information see section 10.5

3. PARTICULAR END USES

-Subject to the indications already specified, no special recommendations need to be made with regard to the uses of this product.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

1. CONTROL PARAMETERS

Substances for which occupational exposure limit values must be controlled in the working environment:
There are no environmental limit values for the substances constituting the
mixture. ACGIH - TWA: 5 mg/m3 - Notes: Mineral oil.

2. DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Amines, C10-C14-tert-alkyl CAS: Not Applicable EC: 701-175-2	Oral	Not applicable	Not applicable	Not applicable	Not applicable
	Cutaneous	Not applicable	Not applicable	Not applicable	Not applicable
	Inhalation	Not applicable	Not applicable	12.5 mg/m³	12.1 mg/m³

3. DNEL (Population)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Amines, C10-C14-tert-alkyl CAS: Not applicable EC: 701-175-2	Oral	Not applicable	Not applicable	0,35 mg/kg	Not applicable
	Dermal	Not applicable	Not applicable	Not applicable	Not applicable
	Inhalation	Not applicable	Not applicable	2,5 mg/m³	1,2 mg/m³

4. PNEC:

Identification				
Amines, C10-C14-tert-alkyl CAS: Not applicable	STP	0.635 mg/L	Fresh water	0.001 mg/L
	Soil	0.428 mg/kg	Sea water	0 mg/L
	Intermittent	0.004 mg/L	Sediment (fresh water)	2.14 mg/kg
EC: 701-175-2	Oral	0.00471 g/kg	Sediment (Marine water)	0.214mg/kg

5. PERSONAL PROTECTION



A.- **Individual protection measures, such as personal protective equipment**

As a preventive measure, the use of basic personal protective equipment, marked with the corresponding 'CE seal', is recommended. For more information on personal protective equipment (storage, use, protection category, etc.) please refer to the information leaflet provided by the PPE manufacturer. The information in this section refers to the pure product. Protective measures for the diluted product may vary depending on its degree of dilution, use, method of application, etc. In determining the obligation to install emergency showers and/or eye drops in the
storage facilities will take into consideration the regulations on chemical storage applicable to each case. For more information, read sections 7.1 and 7.2.

B.- **Respiratory protection**
It will be necessary to use protective equipment if mist is formed or occupational exposure limits are exceeded.

C.- **Specific hand protection**
Not applicable

D.- **Eye and face protection**
Not applicable

E.- **Body protection**
Not applicable

F.- **Complementary emergency measures**
No additional emergency measures need to be taken.

6. Environmental exposure controls:

Under EU environmental protection legislation it is recommended to avoid release of the product and its containers into the environment. For further information see section 7.1.D

8.9 Volatile organic compounds:

In application of Directive 2010/75/EU, this product has the following characteristics:

C.O.V. (Supply):	0.03 % weight
Density of C.O.V. at 40 ºC:	0.25 kg/m³ (0 g/L)
Average number of carbons:	Not applicable
Average molecular weight:	185 g/mol

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

1. INFORMATION ON PHYSICAL AND CHEMICAL PROPERTIES

See product data sheet for complete information.

2. Physical appearance:

Physical state at 20 ºC:	Solid
Appearance:	Thixotropic
Colour:	Black
Odour:	Characteristic
Odour threshold:	Not applicable

3. Volatility:

Boiling point at atmospheric pressure:	Not applicable
Vapour pressure at 20 ºC	Not applicable
Vapour pressure at 50 ºC:	Not applicable
Evaporation rate at 20 ºC:	Not applicable

4. Product characterisation:

Density at 40 ºC:	<1000 kg/m³
Relative density at 40 ºC:	Not applicable

Dynamic viscosity at 40 ºC:	Not applicable
Kinematic viscosity at 20 ºC:	Not applicable
Kinematic viscosity at 40 ºC:	> 600 Cst
Concentration:	Not applicable
pH:	Not applicable
Vapour density at 20 ºC	Not applicable
Partition coefficient n-octanol/water at 20 ºC:	Not applicable
Solubility in water at 20 ºC:	Not applicable
Solubility properties:	Insoluble in water, soluble in organic solvents
Decomposition temperature:	Not applicable
Melting point/freezing point	Not applicable

5. Flammability:

Flash point:	>250 ºC
Flammability (solids, gases):	Not applicable
Auto-ignition temperature:	Not applicable
Lower flammability limit:	Not applicable

6. Not applicable due to the nature of the product.

Upper flammability limit:	Not applicable

Explosivity (Solid)

Lower explosive limit:	Not applicable
Upper explosive limit:	Not applicable

7. Particle characteristics

Median equivalent diameter:	Not applicable

8. Other information:

Information on physical hazard classes:

Explosive properties:	Not applicable
Oxidising properties:	Not applicable
Corrosive substances or mixtures for metals:	Not applicable
Combustion heat:	Not applicable
Total aerosol-percentage (by mass) of components Flammable	Not applicable

9. Other safety characteristics:

Surface tension at 40 ºC:	Not applicable
Refractive index:	Not applicable
Drop point:	ASTM-D566: > 220°C

Not applicable due to the nature of the product.

SECTION 10 STABILITY AND REACTIVITY

1. REACTIVITY
No hazardous reaction if the following technical instructions for storage of chemicals are followed. See section 7.

2. CHEMICAL STABILITY
Chemically stable under conditions of storage, handling and use.

3. POSSIBILITY OF HAZARDOUS REACTIONS
No hazardous reactions are expected due to changes in temperature and/or pressure.

4. CONDITIONS TO AVOID
Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Heating	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

5. INCOMPATIBLE MATERIALS

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid strong alkalis or bases

6. HAZARDOUS DECOMPOSITION PRODUCTS

See headings 10.3, 10.4 and 10.5 for specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemicals may be released as a result of decomposition: carbon dioxide (CO_2), carbon monoxide and other organic compounds.

SECTION 11 TOXICOLOGICAL INFORMATION

1. INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008:

No experimental data is available for the product as such on toxicological properties.

Hazardous health effects:

In case of repeated, prolonged exposure or at concentrations above those established for occupational exposure limits, adverse health effects may occur depending on the route of exposure:

A- Ingestion (acute effect):

-Acute toxicity: Based on available data, the classification criteria are not met.
-Corrosiveness/Irritability: Based on available data, the classification criteria are not met

B- Inhalation (acute effect):

-Acute toxicity: Based on available data, the classification criteria are not met
-Corrosiveness/Irritability: Based on available data, the classification criteria are not met

C- Skin and eye contact (acute effect):

-Skin contact: Based on available data, the classification criteria are not met.
-Contact with eyes: Based on available data, the classification criteria are not met

D- Germ cell mutagenicity, carcinogenicity, toxicity for reproduction:
-Carcinogenicity:
Based on available data, the classification criteria are not met, as there are no substances classified as hazardous for the effects described. For further information see section 3. IARC: Not applicable.
-Mutagenic effects: Based on available data, the classification criteria are not met.
-Reproductive toxicity: Based on available data, the classification criteria are not met.

E- Respiratory or skin sensitisation:
-Respiratory: Based on available data, the classification criteria are not met.
-Cutaneous: Based on available data, the classification criteria are not met.

F-Specific target organ toxicity (STOT)-single exposure:

Based on available data, the classification criteria are not met

G- Specific target organ toxicity (STOT)-repeated exposure:

-Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met
-Skin: Based on available data, the classification criteria are not met

H- Aspiration hazard:
Based on available data the classification criteria are not met
Other information:
Not applicable

Substance-specific toxicological information

Identification	Acute toxicity		Genus
Amines, C10-C14-tert-alkyl CAS: Not applicable EC: 701-175-2	Oral LD50	612 mg/kg	Rat
	LD50 dermal	251 mg/kg	Rat
	LC50 inhalation	1.19 mg/L (4 h)	Rat

Estimate of acute toxicity (ATE mix)

ATE mix		Components of unknown toxicity
Oral	>2000 mg/kg (Calculation method)	Not applicable
Dermal	>2000 mg/kg (Calculation method)	Not applicable
Inhalation	>5 mg/L (4 h) (Calculation method)	Not applicable

2. Information on other hazards

Endocrine disrupting properties

The product does NOT contain substances that meet the endocrine disrupting criteria.

Other information

Not applicable

SECTION 12 ECOLOGICAL INFORMATION

1. TOXICITY

Acute toxicity:

Identification	Concentration		Species	Genus
Amines, C10-C14-tert-alkyl CAS: Not applicable EC: 701-175-2	LC50	1.3 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50	2.5 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	0.435 mg/L (72 h)	Selenastrum capricornutum	Seaweed

Long-term toxicity:

Identification	Concentration		Species	Genus
Amines, C10-C14-tert-alkyl CAS: Not applicable EC: 701-175-2	NOEC	0.078 mg/L	Oncorhynchus mykiss	Fish
	NOEC	Not applicable		

2. PERSISTENCE AND DEGRADABILITY

Substance-specific information:

Identification	Degradability		Biodegradability	
Amines, C10-C14-tert-alkyl CAS: Not applicable EC: 701-175-2	BOD5	Not applicable	Concentration	Not applicable
	COD	Not applicable	Period	28 days
	BOD5/COD	Not applicable	% biodegradable	93 %

3. BIOACCUMULATIVE POTENTIAL

Not available

4. MOBILITY IN SOIL

Identification	Adsorption/desorption		Volatility	
Amines, C10-C14-tert-alkyl CAS: Not applicable EC: 701-175-2	Koc	21380	Henry	Not applicable
	Conclusion	Property	Dry land	Not applicable
	Surface tension	Not applicable	Moist soil	Not applicable

5. RESULTS OF THE PBT AND vPvB EVALUATION

PBT substances: none - vPvB substances: none

6. OTHER ADVERSE EFFECTS

The product does NOT contain substances meeting the endocrine disruption criteria.

7. OTHER ADVERSE EFFECTS:

Not described

SECTION 13 DISPOSAL CONSIDERATIONS

1. OTHER ADVERSE EFFECTS:
Not described

Code	Description	Type of residue (Regulation (EU) no. 1357/2014)
	It is not possible to assign a specific code, as it depends on the user´s use.	Non-hazardous

Type of residue (Regulation (EU) No 1357/2014):
Not applicable
Waste management (disposal and valorisation):
Consult the authorised waste manager for recovery and disposal operations according to Annex 1 and Annex 2 (Directive 2008/98/EC, Legislative Decree 205/2010). According to code 15 01 (2014/955/EU), if the container has been in direct contact with the product it will be treated in the same way as the product itself, otherwise it will be treated as non-hazardous waste. Discharge into watercourses is not recommended. See point 6.2.

Provisions on waste management:
In accordance with Annex II of Regulation (EC) No. 1907/2006 (REACH), EU or national provisions in relation to residue management are collected.
EU legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014 National legislation: Legislative Decree 25/2010

SECTION 14 TRANSPORT INFORMATION

1. Transport of dangerous goods by land:
In application of ADR 2023 and RID 2023:

UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es)	
Not applicable transport:	
Labels:	Not applicable
Packaging group:	Not applicable
Environmental hazards:	Not applicable

2. **Special precautions for users**

Special provisions:	Not applicable
Tunnel restriction code:	Not applicable
Physico-chemical properties:	Not applicable

3. Transport of dangerous goods by sea:
In application of IMDG 40-20:

UN or ID number:	Not applicable
Official UN transport designation	Not applicable

4. Hazard Classes Related to	Not applicable
Transport:	Not applicable
Labels:	Not applicable
5. Packaging group:	Not applicable
6. Marine pollutant :	Not applicable
Special precautions for usersSpecial provisions:	Not applicable
Physico-chemical properties:	See section 9
LQ:	Not applicable
Tunnel restriction code::	Not applicable

7. Transport of dangerous goods by air:

In application of IATA/ICAO 2023:	
UN number or ID number:	Not applicable
Official UN transport designation:	Not applicable
8. Hazard Classes Related to:	
Transport	Not applicable
Labels:	Not applicable
9. Packaging group:	
Environmental hazards:	Not applicable
Special precautions for users	Not applicable

9.1. Physico-chemical properties:	See section 9

SECTION 15 REGULATORY INFORMATION

15.1 APPLICABLE REGULATORY INFORMATION (NATIONAL LAWS AND REGULATIONS)

Safety, health and environmental laws and regulations specific for the substance or mixture:

Candidate substances for authorisation according to Regulation (EC) 1907/2006 (REACH): Not applicable
Substances included in Annex XIV of REACH (Authorisation list) and expiry date: Not applicable Regulation (EC) 1005/2009, on substances that deplete the ozone layer: Not applicable
Article 95, REGULATION (EU) No 528/2012: Not applicable
REGULATION (EU) No 649/2012 concerning the export and import of dangerous chemicals: Not applicable

Seveso III:
Not applicable

Restrictions on the marketing and use of certain hazardous substances and mixtures (Annex XVII REACH, etc.):
Not applicable

Special provisions concerning the protection of people or the environment:
It is recommended to use the information compiled in this safety data sheet as input data in a risk assessment of local circumstances with the aim of establishing the necessary risk prevention measures for handling, use, storage and disposal of this product.

Other legislation:

Legislative Decree 205/2010: Provisions implementing Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain directives.
Legislative Decree 85/2016: Regulations on the implementation of Directive 2014/34/EU on the harmonisation of the laws of the Member States relating to equipment and protective systems intended for use in potentially explosive atmospheres.
Legislative Decree 233/2003: Implementation of Directive 1999/92/EC on minimum requirements for improving the safety and health protection of workers exposed to the risk of explosive atmospheres.
D.Lgs. 186/2011: Sanctions for violation of the provisions of Regulation (EC) No 1272/2008. Legislative Decree 161/2006: Implementation of Directive 2004/42/EC, for the limitation of emissions of volatile organic compounds resulting from the use of solvents in certain paints and varnishes, as well as in car refinishing products.
Legislative Decree 152/2006: Environmental Regulations.
Royal Decree 147/1927, last updated 06/12/2021. Approval of the special regulation for the use of toxic gases.

G.U. 14 March 2016 no. 61 - Legislative Decree 15 February 2016, no. 39
Consolidated text on health and safety at work - Rev. 2022

SECTION 16 OTHER INFORMATION

N.D= Not determined, N.A.= not applicable

This sheet has been revised in all its sections in accordance with EU Regulation 878/2020.

1. CONFORMITY
The data and information given in this safety data sheet comply with current legislation. However, the user is recommended to check and comply with the specific national, regional and local regulations concerning hazardous activities and environmental protection, which are not the subject of this document.

2. PURPOSE
The information in this MSDS is provided for the purpose of health and safety protection in the workplace. The information contained herein relates only to the product indicated and may not apply if the product is used in combination with others or in processing.

3. COMPILATION DATE/REVISION DATE
Product name: GRASSO MOLIB 1
Compilation date: June 2023
Revision date: 03 October 2024

4. OBSERVATIONS
Do not use the product for uses other than those indicated in the sheet under 1.2. If used for other purposes, the user may be exposed to unforeseeable hazards. If the information given here indicates a potential hazard or a hazardous component, appropriate instructions must be given to employees and users and all necessary precautions must be taken.

5. ABBREVIATIONS AND ACRONYMS:
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Dangerous Goods Code
IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand
BOD5: Biological Oxygen Demand after 5 days BCF: Bioconcentration Factor
LD50: lethal dose 50
LC50: lethal concentration 50 EC50: effective concentration 50
Log POW: logarithm octanol-water partition coefficient Koc: organic carbon partition coefficient
UFI: unique formula identifier

The information contained herein is based on our knowledge at the date above and refers to the product indicated. This sheet cancels and replaces all previous editions.