SAFETY DATA SHEET

GREASE A/M 2000 EP 2

(This SDS complies with EU Regulation 878/2020)

SECTION 1 MIXTURE AND COMPANY IDENTIFICATION

1.1 PRODUCT IDENTIFIER
Product name: Grease A/M 2000 EP 2
Product description: Universal lithium grease
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

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE AND RECOMMENDED USES
Intended Use: Lubricating Grease

1.3 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

1.3 COMPETENT TECHNICIAN RESPONSIBLE FOR SAFETY DATA SHEET
sicurezza@columbiamotoroil.com

1.4 EMERGENCY TELEPHONE
010 710033

SECTION 2 HAZARD IDENTIFICATION

2.1 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.

2.2 LABEL ELEMENTS
Symbols: None
Hazard statements: None
Precautionary statements: None
Special provisions: None

2.3 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

3.1 SUBSTANCES

Not applicable. This material is regulated as a mixture.

3.2 MIXTURES

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

SECTION 4 FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

Inhalation:
In case of symptoms, move the affected person to fresh air.

Skin contact:
In case of contact, it is recommended to clean the affected area with plenty of water and mild soap. In case of skin changes (burning, redness, rashes, blisters, ...), seek medical advice with this safety data sheet.

Contact with eyes:
Flush with water until the product is gone. In case of discomfort, consult a doctor with the product´s safety data sheet.

Ingestion:
If swallowed, seek medical attention.

4.2 MAIN SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Acute and delayed effects are indicated in sections 2 and 11.

4.3 INDICATIONS OF ANY NEED FOR MEDICAL ATTENTION AND SPECIAL TREATMENT

Treatment:
Not applicable

SECTION 5 FIRE-FIGHTING MEASURES

5.1 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.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Due to its flammability characteristics, the product does not present a fire hazard under normal conditions of storage, handling and use.

5.3 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, ...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Emergency Response Information Sheets in case of accidents and other emergencies.

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

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND PROCEDURES IN CASE OF EMERGENCY

For those not intervening directly:

Isolate spills or spillages as long as this does not imply an additional risk for those carrying out this operation.

For direct responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 ENVIRONMENTAL PRECAUTIONS

Product not classified as dangerous for the environment. Keep away from drains, surface water and ground water.

6.3 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.

6.4 REFERENCE TO OTHER SECTIONS

See also section 8 and 13

SECTION 7 HANDLING AND STORAGE

7.1 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

7.2 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

7.3 PARTICULAR END USES

Except for the indications already specified, it is not necessary to make any special recommendations regarding the uses of this product.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Substances with occupational exposure limits to be controlled in the workplace: There are no environmental limit values for the substances in the mixture.

ACGIH - TWA: 5 mg/m3 - Notes: Mineral oil

DNEL (Workers):
Not applicable

DNEL (Population):
Not applicable

PNEC:
Not applicable

8.2 INDIVIDUAL 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 further information on the 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 diluted product may vary depending on its degree of dilution, use, method of application, etc. When determining whether emergency showers and/or eye drops must be installed in storage rooms, the regulations on chemical storage applicable to each case will be taken into consideration. For more information, read sections 7.1 and 7.2.

B.- **Respiratory protection**

The use of protective equipment will be required in the event of mist formation or exceeding occupational exposure limits.

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

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

E.- **Body protection**
Not applicable

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

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

Volatile organic compounds:

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

C.O.V. (Supply):	0 % weight
Density of C.O.V. at 20 ºC:	0 kg/m³ (0 g/L)
Average number of carbons:	Not applicable
Average molecular weight:	Not applicable

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON PHYSICAL AND CHEMICAL PROPERTIES

See product data sheet for full information.

Physical appearance:

Physical state at 20 ºC:	Solid
Appearance:	Thixotropic
Colour:	Amber, Brown
Smell:	Characteristic
Odour threshold:	Not applicable

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

Product characterisation:

Density at 20 ºC:	<1000 kg/m³
Relative density at 20 ºC:	Not applicable
Dynamic viscosity at 20 ºC:	Not applicable
Kinematic viscosity at 20 ºC:	Not applicable
Kinematic viscosity at 40 ºC:	>20.5 mm²/s
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

Flammability:

Flash point:	>200 ºC
Flammability (solids, gases):	Not applicable
Auto-ignition temperature:	Not applicable
Lower flammability limit:	Not applicable

Not applicable due to the nature of the product.

Upper flammability limit:	Not applicable

Not applicable

Explosivity (Solid):

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

particle characteristics:

Median equivalent diameter:	Not applicable

9.2 Other information:

Information on physical hazard classes:

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

9.4 Other safety characteristics:

Surface tension at 20 ºC:	Not applicable
Refractive index:	Not applicable
Drop point:	ASTM-D566: > 180°C

Not applicable due to the nature of the product.

SECTION 10 STABILITY AND REACTIVITY

10.1 REACTIVITY

No hazardous reaction if chemical storage instructions are followed. See section 7.

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

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

10.4 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

10.5 INCOMPATIBLE MATERIALS

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

10.6 HAZARDOUS DECOMPOSITION PRODUCTS
See headings 10.3, 10.4 and 10.5 for specific decomposition products. Depending on 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

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

Oral LD50> 2000 mg/kg (Rat)

Hazardous effects on health:

In the event of repeated, prolonged exposure or exposure to 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 Corrosivity/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 Corrosivity/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 Eye contact: 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 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 Dermal: Based on available data, the classification criteria are not met 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:

Not available

Estimation 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

11.2 Information on other hazards

Endocrine disrupting properties

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

Other information

Not applicable

SECTION 12 ECOLOGICAL INFORMATION

12.1 TOXICITY

Not available.

12.2 PERSISTENCE AND DEGRADABILITY

Not available

12.3 BIOACCUMULATION POTENTIAL
Not available

12.4 MOBILITY IN SOIL
Not available

12.5 RESULTS OF PBT AND vPvB ASSESSMENT
PBT substances: none - vPvB substances: none

12.6 OTHER ADVERSE EFFECTS
The product does NOT contain any substances meeting the endocrine disruption criteria.

SECTION 13 DISPOSAL CONSIDERATIONS

Code	Description	Type of waste (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 recovery):
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

Transport of dangerous goods by land:
In application of ADR 2021 and RID 2021:

14.1 UN-NUMBER
Not applicable.

14.2 UN PROPER SHIPPING NAME
Not applicable.

14.3 TRANSPORT HAZARD CLASS(ES)
Not applicable.

14.4 PACKING GROUP
Not applicable.

14.5 ENVIRONMENTAL HAZARDS
No

14.6 SPECIAL PRECAUTIONS FOR USERS
Not applicable.

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE
Not applicable.

SECTION 15 REGULATORY INFORMATION

15.1 APPLICABLE REGULATIONS (NATIONAL LAWS AND REGULATIONS)
Safety, health and environmental 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 sunset 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 that the information compiled in this safety data sheet be used as input data in a risk assessment of local circumstances in order to establish 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: Regulation laying down rules for 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.
Legislative Decree 186/2011: Discipline of sanctions for the 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.

16.1 CONFORMITY
The data and information given in this MSDS comply with current legislation. However, the user is advised to check and comply with specific national, regional and local regulations on hazardous activities and environmental protection, which are not the subject of this document.

16.2 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.

16.3 DATE OF COMPILATION/REVISION DATE

Product name: GRASSO A/M 2000 EP 2
Compilation date: June 2023
Revision date: 03 October 2024

16.4 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.

16.5 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

16.6 OTHER INFORMATION:

Sheet valid for all NLGI 3-2-1 consistency grades

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