SAFETY DATA SHEET (SDS)

Motor oil additives (Tribotechnical compounds)

TS 0254−003−79761558−2009 FEACN code 3811 29 009 0

Date of issue: 10/2021

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification

Trade name:	Tribotechnical compounds / Motor oil additives of trademarks: SUPROTEC, NANOPROTEC, ATOMIUM. Applies to products: ATOMIUM Mototec 2, Mototec 4, MGSB, AGSB, Reducer, Lux 100, HPS; ATOMIUM Active (Gasoline), Active Plus (Gasoline), Active (Diesel), Active Plus (Diesel), Active Regular, Active Standard; ATOMIUM MAX 200 (ICE, MGSB, MAX for hydraulic drive systems); ATOMIUM Off-road 4x4 (ICE Gasoline, ICE Diesel, MGSB, AGSB, Reducer), ATOMIUM Promkompozit 001-015.
Substance name:	None
EC number:	None
Registration number (REACH):	Not included
Index number:	None
CAS number:	None

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses:	Ready and filled in a branded bottle engine oil additives consist of balanced combinations of specially crushed minerals of the group of layered silicates (serpentines, talc-chlorites, etc.). in Addition to minerals, the compositions contain a carrier: 99.5 - 95% oil without additives of yellow colour. It should be understood that ready-to-use additives in oil are not a solution, that is, a homogeneous liquid, but a suspension, where the solid substance (crushed minerals) must be distributed as tiny particles in the liquid substance in a suspended (not settled) condition. This is why the solid part on the bottom of the bottle must be thoroughly mixed before use.
Uses advised against	When working with the product the measures on ecological safety and personnel safety provision shall be observed; it is necessary to use personal protective equipment.

1.3. Details of the supplier of the safety data sheet

Company name:	SUPROTEC EU s.r.o.
Company address	Czech Republic, Kubánské náměstí 1391/11 (Garden Eleven), Praha 10, 10000
Contact name	Dmitry Tsyplyaev, +420 601 124 211 (+ WhatsApp)
Phone / Fax:	+ (420) 217 217 777
Email	info@atomium.eu

1.4 Emergency telephone number

Information on emergency response:	112 (European Union), 112 and 911 (USA, Canada)
Other information:	English transcription of product name: Tribotechnical compounds /Motor oil additives

2. SECTION 2: HAZARDS IDENTIFICATIONS

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)	Not classified as hazardous according to Regulation (EC) No 1272/2008 (CLP).
Additional information:	None.

2.2. Label elements

Hazard pictograms:	Not classified as hazardous and does not require labelling.
Signal word:	No signal word.
Hazard statements:	No hazard statements.
Precautionary statements:	No precautionary statements
Supplemental Hazard information (EU)	No EUH-statements.

2.3. Other hazards

Product doesn’t meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006 (Annex XIII).

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

SAFETY DATA SHEET (SDS)

Motor oil additives (Tribotechnical compounds)

TS 0254−003−79761558−2009 FEACN code 3811 29 009 0

Date of issue: 10/2021

3.1. Substances

Not applicable.

3.2. Mixtures

Substance name	Substance identity	Classification according to Regulation (EC) No 1272/2008 (CLP)	Weight % content (or range)
Distillates (petroleum), heavy hydrocracked	Index: 649-453-00-1 REACH: 01-2119486951-26 EC: 265-077-7 CAS: 64741-76-0	Not Classified	80-99

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. SECTION 4: FIRST AID MEASURES

4.1. Most important symptoms and effects, both acute and delayed

General notes: Get medical attention if exposed or concerned. Show this safety data sheet to the doctor in attendance.

Following inhalation: Move exposed person to fresh air. Keep person warm and at rest. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Obtain medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately.

Following skin contact: Remove contaminated clothing and shoes. Flush contaminated skin with plenty of water. Continue to rinse for at least 10 minutes. If irritation develops or persists, seek medical attention.

Following eye contact: Remove contact lenses and rinse eyes immediately with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, obtain medical advice from a specialist.

Following ingestion: Rinse mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Self-protection of the first aider: Wear appropriate personal protective equipment (PPE) as specified in SECTION 8.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation: Weakness, headache, dizziness, throat irritation, cough, feeling of intoxication, impaired coordination of movements and breathing rhythm

Skin contact: Dryness, peeling, possible reddening.

Eye contact: Eyes tearing, light irritation, reddening

Ingestion: Nausea, vomiting, diarrhea, abdominal pain; in severe cases - cramps, loss of consciousness

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor: Treat symptomatically.

Special treatment: No specific treatment.

5. SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Water spray, dry chemical powder, foam, carbon dioxide.

Unsuitable extinguishing media: Full water jet.

5.2. Special risks related to substance or mixture

Fire and explosion hazard: Combustible liquid.

Hazardous combustion products: Carbon dioxide, carbon monoxide, sulfur oxides.

5.3. Advice for firefighters

Special protective actions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Use water spray to cool tanks/containers exposed to heat, remove them into safety. Extinguish from the windward side of fire with safe distance.

Special protective equipment for fire-fighters: Wear full protective clothing conforming to EN 469 and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Wear other appropriate protective equipment as conditions warrant (see SECTION 8).

SAFETY DATA SHEET (SDS)

Motor oil additives (Tribotechnical compounds)

TS 0254−003−79761558−2009 FEACN code 3811 29 009 0

Date of issue: 10/2021

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Protective equipment	Wear appropriate personal protective equipment (PPE) as specified in SECTION 8.
Emergency procedures	Stop or contain leak at the source if safe to do so. Avoid contact with skin, eyes and clothing. Provide adequate ventilation. Stay upwind. In case of large spillages, alert occupants in downwind areas. Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency..
For emergency responders	Ensure procedures and training for emergency decontamination and disposal are in place. Wear appropriate personal protective equipment (PPE) as specified in SECTION 8.

6.2. Environmental precautions

Environmental precautions	Avoid contact of spilt product with soil and prevent runoff entering surface waterways. Spilt product should not be allowed to enter a sewer because of the possibility of an explosion. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

For containment	Stop or contain leak at the source if safe to do so. Reduce vapours with water spray. Dike far ahead of spill; use dry sand to contain the flow of material. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent entry to sewers and public waters. Ventilate affected area.
For cleaning up	If necessary, dike the product with dry earth, sand or similar non-combustible materials. Let hot product cool down naturally. Large spillages may be cautiously covered with foam, if available, to limit fire risk. Do not use direct jets. When inside buildings or confined spaces ensure adequate ventilation. Absorb spilled product with suitable non-combustible materials. Collect free product with suitable means. Collect recovered product and other contaminated materials in suitable containers for recycle, recovery or safe disposal. In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.

6.4. Reference to other sections

Concerning personal protective equipment to use, see SECTION 8. Concerning disposal elimination after cleaning, see SECTION 13.

7. SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Protective measures:	Handle in an enclosed, controlled process. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. The vapour is heavier than air; beware of pits and confined spaces. Avoid all contact with substance. Do not breathe vapour.
- Measures to prevent fire:	Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use only non-sparking tools and equipment, especially when opening and closing containers.
- Measures to protect the environment:	Avoid release to the environment.
Advice on general occupational hygiene:	Keep away from food and beverages. Do not eat, drink or smoke while using this product. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:	Store in a well-ventilated place at temperatures between -20ºC and 70 ºC away from direct sunlight and heating appliances. Keep only in the original container.
Packaging materials:	No special requirements are known.

7.3. Specific end uses

Recommendations	See SECTION 1.2.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

SAFETY DATA SHEET (SDS)

Motor oil additives (Tribotechnical compounds)

TS 0254−003−79761558−2009 FEACN code 3811 29 009 0

Date of issue: 10/2021

8.1. Control parameters

Occupational exposure limits: No Occupational Exposure Limit assigned.

Biological limit values: Not established

DNELs

SUBSTANCE: Distillates (petroleum), heavy hydrocracked
CAS NO. 64741-76-0

Route of exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required				-	Hazard unknown	-	740 µg/kg bw/day
Inhalation	No hazard identified	No hazard identified	5.58 mg/m³	2.73 mg/m³	Hazard unknown	Hazard unknown	1.19 mg/m³	Hazard unknown
Dermal	No hazard identified	No hazard identified	High hazard (no threshold derived)	970 µg/kg bw/day	Hazard unknown	Hazard unknown	Hazard unknown	Hazard unknown

PNECs

SUBSTANCE: Distillates (petroleum), heavy hydrocracked
CAS NO. 64741-76-0

Environmental protection target	PNEC
Fresh water	No data available
Freshwater sediments	No data available
Marine water	No data available
Marine sediments	No data available
Microorganisms in sewage treatment	No data available
Soil (agricultural)	No data available
Air	No hazard identified
Secondary poisoning	9.33 mg/kg food (

8.2. Exposure controls

Appropriate engineering measures: Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Personal protection equipment:

- Eye and face protection: Safety glasses with side shields or splash goggles (EN 166)

- Skin protection:
  - hand protection: Chemical-resistant gloves (EN 374). Suitable glove material: nitrile or neoprene or PVC.

  - other skin protection: Long sleeve protective clothing, plastic apron, rubber boots.

- Respiratory protection: Where airborne levels below the exposure limits cannot be maintained: half-face mask (EN 140); filter type: AX (EN 371).

Environmental exposure controls: Waste treatment methods. Provide spillage control measures. Avoid contact of spilt product with soil and prevent runoff entering surface waterways. Dispose of rinse water in accordance with local and national regulations. Inform the relevant

authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	liquid
Appearance:	oily clear liquid
Colour	Yellow to grey-yellow
Odour	Characteristic petroleum odour
Odour threshold:	No data available
PH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range	No data available
Flash point	>200ºC
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Density	0,87 g/cm³ @15°C
Solubility(ies)	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	61-75 mm2/s @40°C
Explosive properties	Non explosive
Oxidizing properties	No

9.2. Other information

None known	None

10. SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

May react with strong oxidants with generation of fire and explosion hazard.

10.4. Conditions to avoid

Exposure to direct sunlight, moisture, water; exposure to high temperature and excessive heat, ignition sources (flames, sparks).

10.5. Incompatible materials

Strong oxidising agents.

10.6. Hazardous decomposition products

None under normal use. In the event of fire: see Section 5.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity: Based upon the available data, product does not require any classification under the Regulation (EC) No 1272/2008 (CLP).

Method	Species	Routes of exposure	Effective Dose	Exposure time	Results
SUBSTANCE: Distillates (petroleum), heavy hydrocracked					

CAS NO. 64741-76-0					
OECD 401	rat	Oral	LD50	-	> 5000 mg/kg bw
OECD 403	rat	Inhalation	LC50	4 h	> 5 mg/L air
OECD 402	rabbit	Dermal	LD50	-	> 5000 mg/kg bw

Skin corrosion/irritation	Based upon the available data, product does not require any classification under the Regulation (EC) No 1272/2008 (CLP).
Serious eye damage/eye irritation	Based upon the available data, product does not require any classification under the Regulation (EC) No 1272/2008 (CLP).
Respiratory or skin sensitization	Based upon the available data, product does not require any classification under the Regulation (EC) No 1272/2008 (CLP).
Germ cell mutagenicity	Based upon the available data, product does not require any classification under the Regulation (EC) No 1272/2008 (CLP).
Carcinogenicity	IARC, NTP, OSHA, or ACGIH: Components of this product are not classified as probable, possible or confirmed human carcinogen.
Reproductive toxicity	Based upon the available data, product does not require any classification under the Regulation (EC) No 1272/2008 (CLP).
STOT - SE	Based upon the available data, product does not require any classification under the Regulation (EC) No 1272/2008 (CLP).
STOT - RE	Based upon the available data, product does not require any classification under the Regulation (EC) No 1272/2008 (CLP).
Aspiration hazard	Based upon the available data, product does not require any classification under the Regulation (EC) No 1272/2008 (CLP).

12. SECTION 12: ECOLOGICAL INFORMATION

12.1. Aquatic toxicity

Based upon the available data, product does not require any classification under the Regulation (EC) No 1272/2008 (CLP).

Method	Species		Effective Dose	Exposure time	Results
SUBSTANCE: Distillates (petroleum), heavy hydrocracked CAS NO. 64741-76-0					
Acute (short-term) toxicity					
OECD 203	Fish	Pimephales promelas	LL50	96 h	> 100 mg/L
OECD 202	Crustacea	Daphnia magna	EL50	48 h	> 10000 mg/L
-	Algae/aquatic plants	-	-	-	-
-	Other organisms	-	-	-	-
Chronic (long-term) toxicity					
QSAR	Fish	Oncorhynchus mykiss	NOELR	14 d	≥1000 mg/L
OECD 211	Crustacea	Daphnia magna	NOELR	21 d	10 mg/L
OECD 201	Algae/aquatic plants	Pseudokirchneriella subcapitata	NOEL	72 h	≥ 100 mg/L
DIN 38412	Other organisms	Photobacterium phosphoreum	NOEL	72 h	DIN 38412

12.2. Persistence and degradability

Abiotic degradation	No data available
Physical- and photo-chemical elimination	No data available
Biodegradation	No data available

12.3. Bioaccumulative potential

Partition coefficient n-octanol /water (log Kow)	No data available
Bioconcentration factor (BCF)	No data available

12.4. Mobility in soil

Known or predicted distribution to environmental compartments	No data available
Surface tension	No data available
Adsorption/Desorption	No data available

12.5. Results of PBT (persistence, bioaccumulation and toxicity) and vPvB (very persistent and very bioaccumulative) assessment

This product does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Other adverse effects

Films formed on water may affect oxygen transfer and damage organisms.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Product / Packaging disposal

Dispose of in accordance with local and national regulations via a licensed waste disposal contractor.

13.2. Contaminated packaging

Contaminated packaging may contain traces of the product and therefore should be disposed of in the same way as product.

14. SECTION 14: TRANSPORT INFORMATION

14.1. ADR/RID/ADN

Not regulated

14.2. ICAO/IATA

Not regulated

14.3. IMDG/IMO

Not regulated

14.4. Bulk transportation in accordance with Annex II of MARPOL 73/78 and the International Bulk Chemical Code (IBC)

Not applicable. The products are transported only in packing

15. SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (REACH).

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), as amended.

The product has been classified and marked in accordance with Regulation (EC) No 1272/2008 (CLP).

REGULATION (EU) 2016/918 OF THE COMMISION of 19 may of 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

COMMISSION REGULATION (EU) 2018/1480 of 4 October 2018 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures and correcting Commission Regulation (EU) 2017/776

COMMISSION REGULATION (EU) 2018/669 of 16 April 2018 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

COMMISSION REGULATION (EU) 2019/521 of 27 March 2019 amending, for the purposes of its adaptation to technical and scientific progress Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixture

Other EU regulations

This product does not contain any substances classified as ‘Substances of Very High Concern’ (SVHC) by the European Chemical s Agency (ECHA) under article 57 of REACH.

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

16. SECTION 16: OTHER INFORMATION

16.1. Indication of changes

Not applicable.

16.2. Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety and Health Administration
IARC: International Agency for Research on Cancer
vPvB: Very persistent and very bio accumulative
PBT: Persistent, bioaccumulative and toxic
PPE: Personal protective equipment
SCBA: Self-contained breathing apparatus
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
EL50: Median effect loading
LC50: Median lethal concentration
LD50: Median lethal dose
LL50: Median lethal loading
NOELR: No observable effect loading rate
NOEL: No observable effect level
STOT SE: Specific target organ toxicity - single exposure
STOT RE: Specific target organ toxicity - repeated exposure
ADR/RID: Accord Dangereuses Route/International Carriage of Dangerous Goods by Rail
IMDG/IMO: International Maritime Dangerous Goods/International Maritime Organisation
ICAO/IATA: International Civil Aviation Organization/International Air Transport Association
ADN: International Carriage of Dangerous Goods by Inland Waterways

16.3. Key literature references and sources for data

ECHA (European Chemicals Agency)
GESTIS International Limit values Database
OSHA Occupational Chemical Database
TS 0254−003−79761558−2009 Motor oil additives. Specification
GOST 12.1.007-76 Occupational safety standards system (OSSS). Harmful substances. Classification and general safety requirements
GOST 19433-88 Dangerous goods. Classification and marking.
GOST 31340-2013 Labeling of chemicals. General requirements
GOST 32419-2013 Classification of chemicals. General requirements.
GOST R 22.9.17-2014 Safety in emergencies. Pneumatic emergency and rescue tools. General technical requirements.
SanPiN 2.1.7.1322-03 Hygienic Requirements for Placement and Decontamination of Production and Consumption Wastes
GN 2.2.5.2893-11 Maximum allowable levels (MAL) of skin contamination by harmful substances
GN 2.2.5.1313-03 Maximum allowable concentrations (MAC) of hazardous substances in workplace air\
GN 2.1.5.1315-03 Maximum allowable concentrations (MAC) of chemical substances in water bodies for potable/nonpotable and recreational water use.
GN 2.1.6.1338-03 Maximum permissible pollutant concentrations in the ambient atmosphere of populated areas
R 2.2.2006-05
Guide on hygienic assessment of factors of working environment and work load. Criteria and classification of working conditions
«Water quality norms for fishery water bodies, including standards for maximum permissible concentrations of harmful substances in the water of fishery water bodies» (approved by Order No.552 from 13.12.2016 of the Ministry of Agriculture of the Russian Federation).
«Unified list of goods subject to sanitary-and-epidemiological supervision (control) at the customs border and within the customs territory of the customs union», approved by the Decision of the Commission of the Customs Union of May 28, 2010 No. 299

16.4. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) No. 1272/2008	Classification procedure
Not applicable	Not applicable

16.5. Relevant H-statements (number and full text)

Not applicable

16.6. Relevant H-statements (number and full text)

Not applicable

16.7. Training advice

Date of issue: 22 September 2020

Revision date: –

Version No. 1.0

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.