SAFETY DATA SHEET

ALSION for Mechanical Transmissions

Prepared in the 16-section format of Annex II to REACH, as amended by Commission Regulation (EU) 2020/878

Document ID	SDS-ALS-012-EN
Version	1.0
Issue date	05 April 2026
Language	English
Product type	Mixture / tribological additive
Internal product reference	UA 012/07/11/2025
QR code	Contains SDS ID, product name, company details, contacts and website.

This Safety Data Sheet is issued for professional external use and contains the applicable safety, handling, storage, transport and regulatory information available for the product.

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name	ALSION for Mechanical Transmissions
Ukrainian product designation	ALSION для механічних трансмісій
Product code	UA 012/07/11/2025
Product identifier	Mixture
UFI	Not assigned / not available
Packaging	1 syringe tube x 10 g in a cardboard box

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

Relevant identified use: Tribological additive for mechanical transmissions and reducers operating in an oil-lubricated environment.

Uses advised against: Use only as intended by the manufacturer. Any use other than the recommended technical application is not advised.

1.3 Details of the supplier of the safety data sheet

Supplier / manufacturer	PRIVATE ENTERPRISE "HG-ALSION"
Company ID	EDRPOU 32674624
Registered legal address	Ukraine, 61177, Kharkiv region, Kharkiv, Taborova Street, building 39
Telephone	+38 (093) 888-30-00
E-mail	office@hg-alsion.com
Website	www.hg-alsion.com

1.4 Emergency telephone number

Supplier contact: +38 (093) 888-30-00.

For medical emergencies, contact the local emergency medical service or poison centre in the destination country.

2. Hazards identification

2.1 Classification of the substance or mixture

Not classified as hazardous according to Regulation (EC) No 1272/2008 (CLP).

2.2 Label elements

Hazard pictograms	None required
Signal word	None required
Hazard statements	None required
Precautionary labelling	No mandatory CLP label elements identified based on available information

2.3 Other hazards

Does not meet the criteria for PBT or vPvB.

Does not contain endocrine-disrupting substances at a concentration of >= 0.1% according to the available product data.

Avoid contact with eyes and ingestion during handling.

3. Composition/information on ingredients

3.2 Mixtures

Composition description: Proprietary tribological mixture consisting of nanostructured metakaolin dehydration products of natural and/or synthesised hydrates of inorganic compounds and mixtures thereof with saturated hydrocarbons and/or organosilicon polymers.

Hazardous ingredients: The product does not contain hazardous substances in reportable quantities and does not require hazardous ingredient disclosure based on the available classification data.

The mixture is not classified as hazardous and does not require hazardous ingredient disclosure in this SDS based on the available product classification data.

4. First-aid measures

4.1 Description of first-aid measures

General advice	If symptoms occur or persist, seek medical advice. Treat symptomatically.
Inhalation	Move exposed person to fresh air. Seek medical attention if discomfort persists.
Skin contact	Remove contaminated clothing and wash skin thoroughly with plenty of soap and water.
Eye contact	Rinse cautiously with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing.
Ingestion	Rinse mouth with water. Do not give anything by mouth to an unconscious person. Seek medical advice if discomfort occurs.

4.2 Most important symptoms and effects, both acute and delayed

Based on available information, no significant acute or delayed health effects are expected under normal intended use. Eye contact may cause temporary discomfort.

4.3 Indication of any immediate medical attention and special treatment needed

No specific antidote known. Treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: foam, dry chemical powder, carbon dioxide (CO2), or water spray.

Unsuitable extinguishing media: direct water jet may spread burning material.

5.2 Special hazards arising from the substance or mixture

The product is combustible at elevated temperatures. Thermal decomposition may generate irritating fumes and combustion products such as carbon oxides, silicon oxides and inorganic oxides.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and suitable protective clothing. Cool exposed containers with water spray.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes, skin and clothing. Ensure adequate ventilation. Use suitable personal protective equipment if large quantities are handled.

6.2 Environmental precautions

Avoid uncontrolled release to drains, surface water or soil.

6.3 Methods and material for containment and cleaning up

Collect spilled material mechanically or absorb with inert absorbent material. Transfer to a suitable, labelled waste container for disposal in accordance with Section 13.

6.4 Reference to other sections

See Sections 8 and 13 for personal protection and disposal information.

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes and ingestion. Do not eat, drink or smoke when using this product. Wash hands after handling. Keep container tightly closed when not in use.

7.2 Conditions for safe storage, including any incompatibilities

Store in the original manufacturer packaging. Protect from light. Protect the packaging from damage. Store away from foodstuffs and animal feed. Store in a cool, dry, well-ventilated place.

7.3 Specific end use(s)

Tribological additive for mechanical transmissions and reducers operating in an oil-lubricated environment.

8. Exposure controls/personal protection

8.1 Control parameters

No occupational exposure limits have been identified for the mixture based on the information provided.

8.2 Exposure controls

Appropriate engineering controls	General workplace ventilation is normally sufficient.
Eye/face protection	Safety glasses are recommended where splash risk exists.
Skin protection	Protective gloves are recommended for prolonged or repeated contact.
Respiratory protection	Not normally required under normal conditions of use.
Hygiene measures	Wash hands after handling and before eating, drinking or smoking.
Environmental exposure controls	Avoid uncontrolled release to the environment.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Gel-like / viscous
Colour	Transparent / white / yellow
Odour	Odourless
Melting point / freezing point	No data available / not relevant for the mixture
Boiling point or initial boiling point and boiling range	No data available
Flammability	Not classified; combustible only at elevated temperature
Lower and upper explosion limit	No data available
Flash point	>= 300 °C (open cup)
Auto-ignition temperature	>= 400 °C
Decomposition temperature	No data available
pH	No data available / not applicable
Kinematic viscosity	No data available in Annex II format; product described as gel-like / viscous
Solubility	No data available
Partition coefficient n-octanol/water	No data available
Vapour pressure	No data available
Density / relative density	0.988 - 1.1 g/cm³ at 25 °C
Relative vapour density	No data available
Particle characteristics	Not applicable to the mixture as supplied; nanostructured inorganic components are present according to product description, but particle-size data are not provided in this SDS.
Pour / solidification point	<= -45 °C

9.2 Other information

No additional information available.

10. Stability and reactivity

10.1 Reactivity
No dangerous reactivity expected under normal conditions of use and storage.

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Hazardous polymerisation or hazardous reactions are not expected under normal conditions.

10.4 Conditions to avoid
Excessive heat, open flames, and prolonged exposure to direct sunlight.

10.5 Incompatible materials
Strong oxidising agents.

10.6 Hazardous decomposition products
Combustion or thermal decomposition may generate carbon oxides, silicon oxides and inorganic oxides.

11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	Not classified based on available information.
Skin corrosion/irritation	The product is not classified as irritating to skin.
Serious eye damage/eye irritation	No classification available; direct contact may cause temporary discomfort.
Respiratory or skin sensitisation	No data available.
Germ cell mutagenicity	No data available.
Carcinogenicity	Not classified as carcinogenic based on available information.
Reproductive toxicity	No data available.
STOT-single exposure	No data available.
STOT-repeated exposure	No data available.
Aspiration hazard	No data available.

11.2 Information on other hazards
No endocrine-disrupting properties at >= 0.1% are reported for the mixture. Other toxicological information is not available.

12. Ecological information

12.1 Toxicity
No ecotoxicological test data are available for the mixture.

12.2 Persistence and degradability
No data available.

12.3 Bioaccumulative potential
No data available.

12.4 Mobility in soil
No data available.

12.5 Results of PBT and vPvB assessment
The mixture does not meet the criteria for PBT or vPvB.

12.6 Endocrine disrupting properties
The mixture does not contain an endocrine-disrupting substance at >= 0.1% according to available product data.

12.7 Other adverse effects
Avoid uncontrolled release to the environment.

13. Disposal considerations

13.1 Waste treatment methods

Dispose of product residues and contaminated absorbents through an authorised waste contractor in accordance with local, regional, national and international regulations.

Clean packaging may be recycled where facilities exist. Packaging contaminated with product residues should be disposed of in accordance with applicable waste requirements.

14. Transport information

Based on the available information, the product is not classified as dangerous goods for transport.

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not regulated
14.6 Special precautions for user	None known
14.7 Maritime bulk transport (IMO instruments)	Not applicable

15. Regulatory information

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

This SDS is structured in accordance with Annex II to Regulation (EC) No 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878, and the hazard classification approach of Regulation (EC) No 1272/2008 (CLP).

15.2 Chemical safety assessment

A chemical safety assessment for the mixture has not been reported.

16. Other information

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Performance statements published in product literature are commercial / technical claims and are not hazard classification statements.

End of Safety Data Sheet