Safety Data Sheet：Lubrolene P-512

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

Trade Name : P-512
Application : Lubricant
Manufacture : Aoki Science Institute Co., Ltd.
6-10-1, 34F, Roppongi, Minato-ku, Tokyo, Japan 106-6134
TEL：+81(3)-3403-4301
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2. Hazards Identification

GHS CLASSIFICATION

Not classified

GHS label elements

Symbol(s) No symbol
Signal words No signal word
GHS Hazard No GHS Hazard
GHS Precautionary statements

PREVENTION

Wash skin thoroughly after handling.
Wear protective gloves/eye protection/face protection.

RESPONSE

IF IN EYES:Rinse cautiously with water for several minutes.Remove Contact lenses, if present and easy to do.Continue rinsing.
If eye irritation persists: Get medical advice/attention.

STORAGE

Store in a well-ventilated place. Keep cool.
Store lock up.

DISPOSAL

Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations.

3. Composition / Information on Ingredients

SUBSTANCE / MIXTURE Mixture which mainly consists of following chemicals

CHEMICAL NAME	COMPOSITION	CAS No	TOSCA
Lubricating oils (petroleum)	90 ~ 99 wt%	Proprietary	Listed
Vegetable oil	1 - 10 wt%	Proprietary	Listed

4. First-Aid Measures

INHALATION

Move the exposed person to fresh air at once. Remove victim immediately from source of exposure. Move injured person into fresh air and keep person calm under observation. If necessary, seek hospital and bring these instructions.

INGESTION

Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention.

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions. Immediately flush with plenty of water for up 15 minutes. Remove any contact lenses and open eyes wide apart.

5. Fire-Fighting Measures

EXTINGUISHING MEDIA

Small fires: Dry chemicals, sand, dolomite etc. Carbon dioxide (CO_2).

Larger fires: Foam, Water spray, fog for mist.

SPECIAL FIRE FIGHTING PROCEDURES

Avoid water in straight hose stream; will scatter and spread fire. Water spray should be used to cool containers. Use water to keep fire exposed containers cool and disperse vapors.

SPECIFIC HAZARDS

Asphyxiating gases/vapors/fumes of: Carbon monoxide (CO). Vapors are heavier than air and may travel along the floor and in the bottom of containers. Vapors may be ignited by a spark, a hot surface or an ember.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental Release Measures

PERSONAL PRECAUTIONS

For personal protection, see section 8. Take precautionary measures against static discharges. Avoid inhalation of spray mist and contact with skin and eyes.

ENVIRONMENTAL PRECAUTIONS

Do not discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

SPILL CLEAN UP METHODS

Collect spillage in containers, seal securely and deliver for disposal according to local regulations. When dealing with a spillage, please consult the section relating to suitable protective measures. Smaller quantities of residue may be collected by a absorbent.

7. Handling and Storage

USAGE PRECAUTIONS

Provide good ventilation. Risk of vapor concentration on the floor and in low-lying areas. Static electricity and formation of sparks must be prevented. Do not eat drink or smoke when using the product. Observe good industrial hygiene practices. Good personal hygiene is necessary. Wash hands and contaminated areas with

water and soap before leaving the work site. Avoid inhalation of vapors/spray/ and contact with skin and eyes. Protect electric equipment against sparking in case of risk of explosion. Keep away from heat, sparks and open flame. Protect against direct sunlight.

STORAGE PRECAUTIONS

Keep in original container. Store in original containers in a well ventilated area away form heat, sunlight, ignition sources or open flame. Keep away from oxidizing agents. Take precautionary measures against static discharges. Keep away from heat, sparks and open flame. May attack some plastics, rubber and coatings.

8. Exposure Controls / Personal Protection

INGREDIENT COMMENTS

No exposure limits noted for ingredient(s). SUP TWA=5mg/m3, SUP=Supplier's recommendation.

PROTECTIVE EQUIPMENT

Protective glasses

Protective glove

PROCESS CONDITIONS

Use engineering controls to reduce air contamination to permissible exposure level.

ENGINEERING MEASURES

All handling to take place in well-ventilated area.

RESPIRATORY EQUIPMENT

In case of inadequate ventilation use suitable respirator. chemical respirator with organic vapor cartridge.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Provide eyewash station.

HYGIENE MEASURES

When using do not eat, drink or smoke. Wash promptly skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet.

9. Physical and Chemical Properties

APPEARANCE	Clear light brown liquid
ODOUR	Paraffinic
SOLUBILITY	Insoluble in water
BOILING POINT	250～300°C @760mmHg
FLASH POINT	220°C (COC)
RELATIVE DENSITY	0.89～0.91@ 15°C
VAPOUR DENSITY (air=1)	>=1
VISCOSITY	2000～3000cP @20°C

10. Stability and Reactivity

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID

Strong acids. Strong oxidizing substances. Flammable/combustible material.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11. Toxicological Information

INHALATION

Vapor may affect central nervous system and cause headache, discomfort, vomiting or intoxication.

INGESTION

Pneumonia may be the result if vomited material containing solvents reaches the lungs.

SKIN CONTACT

Product has a defatting effect on skin. Repeated exposure may cause skin dryness or cracking. Prolonged contact may cause redness, irritation and dry skin.

EYE CONTACT

No Specific health warnings noted.

HEALTH WARNINGS

May cause skin irritation/eczema.

ROUTE OF ENTRY

Inhalation. Ingestion. Skin absorption.

MEDICAL SYMPTOMS

Skin contact may cause: Dry skin. High concentrations of vapors may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

The product is not expected to be toxic to aquatic organisms. The product contains a substance which may cause long term adverse effects in the environment.

MOBILITY

The product is insoluble in water and will spread on the water surface.

BIOACCUMULATION

No data available on bioaccumulation.

DEGRADABILITY

The product is not readily biodegradable.

ACUTE FISH TOXICITY

Not considered toxic to fish.

WATER HAZARD CLASSIFICATION

WGK 1

13. Disposal Considerations

GENERAL INFORMATION

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. Do not puncture or incinerate even when empty.

DISPOSAL METHODS

Vent to atmosphere. Dispose of waste and residues in accordance with local authority requirements.

14. Transport Information

SEA TRANSPORT NOTES	Not Classified.
AIR TRANSPORT NOTES	Not Classified.
ADR CLASS	Not dangerous according to ADR.
MARINE POLLUTANT	No.

15. Regulatory Information

The U.S.TSCA inventory : All components of this material are on the US TSCA inventory.
The EC EINECS inventory : All components of this material are on the EC EINECS inventory.

16. Other Information

DISCLAIMER

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Aoki Science Institute shall not be held liable for any damage resulting form contact with or handling of the above product.