

SAFETY DATA SHEET

Date Prepared: February 4, 2021

PROFIX SP 5W-40

SDS No.

4101700

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: PROFIX SP 5W-40
 General or Generic ID: Gasoline Engine Oil
 Chemical Family / Description: Petroleum Hydrocarbons
 Company: SANKYO YUKA KOGYO K.K.
 Address: 2-6-1, Hiroo, Ichikawa-City, Chiba Pref., Japan
 Telephone Numbers
 Emergency: 81-47-356-1211
 Information: 81-47-356-1241

2. HAZARDS IDENTIFICATION

Physical Hazards:	Flammable liquids		Not classified
Health Hazards:	Acute toxicity	Oral	Not classified
		Dermal	Not classified
		Inhalation	Not classified
		Skin corrosion/Irritation	Not classified
	Serious eye damage/Eye irritation	Not classified	
	Respiratory sensitization	Not classified	
	Skin sensitization	Category 1	
	Germ cell mutagenicity	Not classified	
	Carcinogenicity	Not classified	
	Reproductive toxicity	Not classified	
Specific target organ toxicity	- Single exposure		Not classified
			Not classified
	- Repeated exposure		Not classified
			Not classified
Aspiration hazard		Not classified	
Environmental Hazards:	Hazardous to the aquatic environment	-Short term (acute)	Not classified
		-Long term (chronic)	Not classified
		Hazardous to the ozone layer	Not classified

Symbol:



Signal word: Warning

Hazard statement: • H317 : May cause an allergic skin reaction.

Precautionary statement

Prevention:

- P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

- P302+P352: IF ON SKIN: Wash with plenty of water and soap.
- P333+P313: If skin irritation or a rash occurs: Get medical advice/attention.
- P362+P364: Take off contaminated clothing and wash it before reuse.

Storage:

None

Disposal: • P501:Dispose of contents/container in accordance with local/regional/national/international regulation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture
 General product description: Petroleum hydrocarbons and additive(s)
 Ingredients and composition:

<u>Chemical name</u>	<u>Composition(wt%)</u>
Mineral,Hydrotreated Oil (DMSO extract <3% by IP346, so classification as carcinogen does not apply.)	80.0 - 90.0
Additive(s)	10.0 - 20.0

Hazardous ingredients: Molybdenum and its compounds / Skin sensitization : Category 1 /
 $\leq 0.5\%$

4. FIRST AID MEASURES

Skin contact: Remove all contaminated clothing. Wash the affected area with plenty of water with mild soap. If irritation is continued, refer to medical attention.
 Eye contact: Gently rinse the affected eyes with clean water for at least 15 minutes lifting upper and lower eyelids occasionally. And refer to medical attention.
 Inhalation: Remove victim to fresh air. If breathing is weak, irregular or has stopped, open his airway, loosen his collar and administer artificial respiration. And refer to medical attention.
 Ingestion: Do not induce vomiting and refer to medical attention.
 Never give anything by mouth to a convulsing or unconscious person.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Foam, Dry chemical, Carbon dioxide
 Specific hazards regarding with fire-fighting measure
 • Large fires are best controlled by foam.
 • Apply extinguishing media from a safe distance and project surrounding area.
 • Firefighters should wear proper protective equipment and self-breathing apparatus.
 Hazardous combustion product: Incomplete combustion can produce smoke and carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:
 • Evacuate personnel to safe area. Evacuate non- essential personnel.
 • Wear proper protective equipment.
 Procedures if product is released or spilled:
 • Shut off all sources of ignition.
 • For small spill, absorb spills with inert materials(e.g. dry sand, earth, etc.), then place in a chemical waste containers.
 • For large spill, dike for later disposal, cover spills with foam, then place in a chemical waste container using non-sparking tools.

7. HANDLING AND STORAGE

Handling:
 • Shut off all gas pilot and electrical igniters and other sources of ignition during use and until all vapors gone.
 • Wear proper protective equipment to avoid contact and inhalation.
 • Use local exhaust ventilation.

Storage:

- Keep containers tightly closed and store in a cool, dark, well-ventilated location.
- Keep away from heat, ignition source and sunlight.
- Specific materials to be avoided: Strong oxidizing agents, organic peroxides, strong bases.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure control:

- Use this product only in a totally enclosed systems or local exhaust ventilation.
- Make available in the work area with emergency shower and eyes washer.

Exposure limit:

ACGIH(2010): 5mg/m³ mist(TWA)

Personal protection equipment:

- Respiratory protection: Industrial canister gas masks.
- Eye protection: Safety goggles or face shield.
- Hand, skin and body protection: Chemical-resistant gloves, impervious boots and apron or full-body suit.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Bright and clear liquid
Color:	Light Amber
Odor:	Slight odor
Odor threshold limit:	No Data
Melting point/Freezing point:	No Data
Boiling point:	≥ 250 °C
Lower and upper explosion limit (in air, vol%):	Lower 1 Upper 7
Flash point:	≥ 200 °C (COC)
Auto ignition temperature:	No Data
Decomposition temperature:	No Data
Evaporation rate:	No Data
pH:	No Data
Viscosity at 40°C:	About 85 mm ² /s
Solubility:	Insoluble in water
Partition coefficient n-octanol/water:	No Data
Vapor pressure:	No Data
Density at 15°C:	0.84 - 0.86 g/cm ³
Relative vapor density:	No Data Available
Pour point:	≤ -30.0 °C

10. STABILITY AND REACTIVITY

Stability:	Stable under normal temperature and pressure.
Materials to avoid:	strong oxidizers.
Hazardous Decomposition products:	Carbon monoxide.
Hazardous polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Oral toxicity(rats):	For base oil, LD ₅₀ > 5000mg/kg practically non-toxic. For mixtures, the hazard categories were classified based on the mixture classification.
Dermal toxicity(rats):	For base oil, LD ₅₀ > 5000mg/kg practically non-toxic. For mixtures, the hazard categories were classified based on the mixture classification.

- Inhalation toxicity(rats): For base oil, LC₅₀ > 5mg/L practically non-toxic.
For mixtures, the hazard categories were classified based on the mixture classification.
- Carcinogenic effects: OSHA: Base oil of this product is listed as Group 3 IARC.
EU: For base oil, the classification as a carcinogen need not apply.
For mixtures, the hazard categories were classified based on the mixture classification.

12. ECOLOGICAL INFORMATION

Toxicity:

- For base oil, in a static acute limit test, fathead minnow were exposed to the Water Accommodated Fraction (WAF) of a similar substance to the product at a nominal concentration of 100 mg/L: LL₅₀ (fish, 96h) > 100mg/L; NOEL (fish, 14d) > 100mg/L.
- For base oil, in a static Daphnia magna test, animals were exposed to the WAF of a similar substance to the product at nominal concentrations of up to 10,000 mg/L:EL₅₀ (48h) and NOEL were greater than 10,000 mg/L. Thus, the similar base oil WAF is generally non-toxic.
- For base oil, in a semi-static, long-term Daphnia magna reactive test, animals were exposed to the WAF of a similar substance to the product at nominal concentrations of up to 1,000 mg/L: the NOEL (Daphnia magna, 21d) was 10 mg/L based on effects to reproduction.
- For base oil, in an algal toxicity study, Pseudokirchneriella subcapitata was exposed to a similar substance to the product at a nominal concentration of 100 mg/L WAF loading rate under static conditions: NOEL was found to be > 100 mg/L based on average specific growth rate and cell yield.
- For base oil, in a static 4-Day microorganism luminescence inhibition study using other lubricant base oils as control substances, no significant luminescence inhibition was observed.

Mobility in soil:

For base oil, lubricating oils components have estimated log K_{oc} > 3, indicating these components are likely to be adsorbed onto soil and sediment and are not likely to leach to ground water.

Persistence and degradability:

For base oil, another lubricant base oil was determined to be inherently biodegradable but not readily biodegradable, with a mean degradation of 31% by day 28.

Bioaccumulative potential:

No useful information as base oil of this product.

Hazardous to the ozone layer :

There is no use of regulated substances such as the Montreal Protocol and the Ozone Layer Protection Law, etc.

13. DISPOSAL CONSIDERATION

Dispose of in accordance with all applicable local, state and federal regulations.

This product is not suitable for landfill or disposal via the drains.

Containers of this product may be hazardous when emptied due to product residue.

All hazard precautions given in this data sheet must be observed for empty containers.

14. TRANSPORT INFORMATION

The description shown may not apply to all shipping situations.

DOT:	Not regulated as dangerous goods.
IMDG:	Not regulated as dangerous goods.
IATA:	Not regulated as dangerous goods.
UN Number:	Not Classified
UN Proper Shipping Name:	Not Classified
Transport Hazard Class:	Not Classified
Packing Group:	Not Classified
Marine Pollutant:	Not Classified

Annex II, MARPOL 73/78, IBC Code: No Data
Other Special: No Data

15. REGULATORY INFORMATION

The components of this product are reported in the following inventories:

The U.S.TSCA inventory:

One or more components of this product are on the U.S.TSCA Inventory, but there may be unregistered components.

The EU REACH inventory:

One or more components of this product are on the EU REACH Inventory, but there may be unregistered components.

The CANADA DSL inventory:

One or more components of this product are on the CANADA DSL Inventory, but there may be unregistered components.

The CHINA IECSC inventory:

One or more components of this product are on the CHINA IECSC Inventory, but there may be unregistered components.

The AUSTRALIA AICS inventory:

One or more components of this product are on the AUSTRALAI AICS Inventory, but there may be unregistered components.

The KOREA KECL inventory:

One or more components of this product are on the KOREA KECL Inventory, but there may be unregistered components.

The PHILIPPINE PICCS inventory:

One or more components of this product are on the PHILIPPINE PICCS Inventory, but there may be unregistered components.

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not.

Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.