

SAFETY DATA SHEET

MSDS: 44602-1121E51EEN
 Date Prepared: 2010/07/01
 Date Revised: 2015/02/02

Product Name: FARM GEAR B

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

Product Name: FARM GEAR B
 Identification of the supplier: JX Nippon Oil & Energy Corporation
 Address: 6-3, Otemachi 2-Chome, Chiyoda-ku, Tokyo, 100-8162 Japan
 Charge section: Lubricants Quality Assurance Group
 (TEL:+81 3-6275-5158)

2. Hazards identification

hazard category	Category
Flammable liquids	No Classification
Acute toxicity (oral)	No Classification
Acute toxicity (dermal)	No Classification
Skin corrosion/irritation	No Classification
Serious eye damage/eye irritation	Category 2
Skin sensitizer	Category 1
Specific target organ systemic toxicity following single exposure	No Classification
Specific target organ systemic toxicity following repeated exposure	No Classification
Aspiration hazard	No Classification
Acute hazards to the aquatic environment	No Classification
Chronic hazards to the aquatic environment	No Classification

LABEL ELEMENTS

Precautionary pictograms:



Signal word: Warning
 Hazard Statement: Causes serious eye irritation
 May cause allergic skin reaction

Precautionary Statements:

Prevention Do not handle until all safety precautions have been read and understood.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Do not allow the eyes to become exposed to the product. Do not swallow the product.
 Contaminated work clothing should not be allowed out of the workplace.
 Avoid breathing dust/fume/gas/mist/vapours/spray.
 Wash hands thoroughly after handling.
 Do not eat, drink or smoke when using this product.

Response IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.

IF ON SKIN: Wash with plenty of soap and water.

Take off contaminated clothing and wash before reuse.

If skin irritation or a rash occurs: Get medical advice/attention.

IF IN EYES: Rinse continuously with water for several minutes.

Remove contact lenses if present and easy to do. continue rinsing.

Storage The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.

Containers that have been opened must be tightly sealed.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.

3. Composition/information on ingredients

Substance/Mixture: Mixture

Ingredients and Concentration

Ingredient Name	Concentrationwt. %
Base Oil(s)	90-99
Additives	<10

4. First-aid measures

Inhalation:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Cover the body with blankets to keep warm and quiet. If you feel unwell, seek medical advice.

Skin Contact:

Immediately flush skin with large amounts of water.

Wash contaminated clothing before reuse.

If skin irritation occurs : Get medical advice/attention.

Eye Contact:

Rinse with clean water carefully for several minutes. Remove contact lenses if present and if removal is easy, then continue rinsing. Rinse for 15 minutes at a minimum and seek medical attention.

Ingestion:

Do not induce vomiting. Drink [one glass] [two glasses] of water. Call a physician [or poison control center] immediately.

5. Fire-fighting measures

Suitable Extinguishing Media:

Mist of loaded liquid, dry chemicals, carbon dioxide, fire foam, and dry sand are effective.

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Extinguishing Media to Avoid:	Use of straight steam of water can cause a risk of spreading fire.
Specific hazards arising from the chemical:	In some cases of fire, may release irritant gases.
Fire Fighting:	When burnt, may generate carbon monoxide and other toxic gases. Spray water to the surrounding facilities for cooling. Keep unauthorized persons off the site of occurrence of fire and the surroundings. Even after extinction, cool containers thoroughly with plenty of water.
Special protective equipment and precautions for fire fighters:	Wear fire/flare resistant/retardant clothing. Fight fire from windward direction while wearing protective equipment. If contact with skin is expected, wear impervious protective equipment and gloves. Use air-breathing apparatus and protective clothing whenever necessary.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Wear protective equipment when working. Remove nearby potential ignition sources immediately. When mist is generated, use respiratory equipment to prevent inhalation of mist. Do not touch or walk through spillage. Pay attention to the site of spillage, which is slippery.
Environmental precautions:	Prevent spreading of oil spill with earth and sand, sandbags, or other proper materials and use care not to allow the oil spill to flow to street drains, sewer systems, and rivers. At sea, install oil spill containment booms to prevent spreading of spills and absorb with absorption mat or other proper materials.
Methods and materials for containment and cleaning up:	In case of spillage in small quantity, collect spillage by absorbing with earth, sand, sawdust, waste, or other proper materials. In case of spillage in large quantity, enclose with embankment to prevent spreading of spillage and collect spillage in empty containers to the extent possible.
Prevention of second accident:	In case of spillage, immediately inform the organizations concerned of the spillage to prevent possible accidents and spreading of spillage. Remove nearby potential ignition sources immediately and make fire-extinguishing agents available. Remove spillage completely, and ventilate and clean the site and the surroundings.

7. Handling and storage

Handling

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Technical Measures:	Keep away from any possible contact with sparks, open flames, and high-temperature materials, and do not allow release of vapor without justification. Use pumps or other proper equipment for taking out from containers. Do not siphon with your mouth using a tube. Do not drink. When mist is generated, use respiratory equipment to prevent inhalation of mist. In case of vapor/mist dispersion, install a closed system, local ventilation system, and/or other proper equipment for the sources of vapor/mist generation. Avoid rough handling of containers such as falling, dropping, exposing to shock, and dragging.
Ventilation requirements:	Maintain adequate ventilation when handling indoors.
Precautions:	Wash hands and face thoroughly after handling. Be careful with fire.
Precautions for safe handling:	Avoid falling, dropping, exposing to shock, or dragging of containers. Wear protective gloves when opening containers to eliminate a risk of hand injury.
Storage	
Storage Conditions:	Store in a well ventilated, cool, dry, dark place, protecting from direct sunlight and keeping away from any potential ignition sources and high-temperature materials. Store tightly stopped after use to prevent possible contamination with dust and moisture. Preferably store locked up in a proper storage area.
Safety adequate container materials:	Use spill-proof containers that are free of damage/corrosion.

8. Exposure controls/personal protection

Appropriate engineering controls: In case of mist generation, enclose the source of mist generation, or install a ventilation system.
Install eye cleaning and body cleaning equipment near the handling site.

Control parameters

Ingredient Name	Japan Society for Occupational	ACGIH	
	Occupational Exposure Limits	TLV-STEL	TLV-TWA
Base Oil(s)	None established ppm, 3mg/m ³ (Mineral Oil Mist)	None established ppm, None established mg/m ³	None established ppm, 5mg/m ³ (Mineral Oil Mist)

Personal Protective Equipment

Respiratory Protection: Not needed under normal conditions, but wear a gas mask (against organic gases) whenever required.

Hand protection: In case of prolonged or repeated exposure, wear oil-resistant hand protection.

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Eye/face protection: In case of exposure to splashes, wear ordinary type goggles.
 Skin Protection: In case of handling over a prolonged period of time or in case of exposure to oil, wear oil-resistant, long-sleeved work clothing.

Hygiene Measures: Take off contaminated clothing and wash thoroughly before reuse.
 Wash hands thoroughly after handling.

9. Physical and chemical properties

Product

Physical state: Liquid
 Form: Liquid
 Color: Light brown
 Odor: Slight odor
 Melting point/freezing point: Pour Point-42.5(°C)
 Initial boiling point and boiling range: Initial boiling point - End point No data
 Flash point: 234(°C)Cleveland Open Cup
 Auto-ignition temperature: Estimate200-410(°C)
 Upper/lower flammability or explosive limits: Explosion Limit (1-7%)
 Vapour density: No data.
 Density(g/cm³): 0.885(15°C)
 Solubility: water : Insoluble.
 Partition coefficient: n-octanol/water: No data.
 Decomposition temperature: No data.

10. Stability and reactivity

Chemical stability: Stable when stored or preserved in a dark place at room temperature.
 Possibility of hazardous reactions: Keep away from any possible contact with strong oxidizing agents.
 Conditions to avoid: Contact with incompatible hazard substances
 Prolonged heating, open flames, and ignition sources
 Incompatible materials: Use care to keep away from any possible contact with halogens, strong acids, alkalis, and acidifying substances.
 Hazardous decomposition products: When burnt, may release carbon monoxide and other gases.

11. Toxicological information

Product

Acute toxicity (oral): For mixtures, hazard category was identified based on the classification criteria for mixtures.

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Acute toxicity (dermal):	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Acute toxicity (inhalation):	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Skin corrosion/irritation:	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Serious eye damage/irritation:	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Respiratory sensitization:	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Skin sensitization:	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Mutagenicity:	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Carcinogenicity:	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Reproductive toxicity:	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Target organ effect/Single exposure:	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Target organ effect/Multi exposure:	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Respiratory toxic:	For mixtures, hazard category was identified based on the classification criteria for mixtures.

Ingredient
 Base Oil(s)

Acute toxicity (oral):	LD50: \geq 5000 mg/kg[rat]
Acute toxicity (dermal):	LD50: \geq 5000 mg/kg[rat]
Serious eye damage/irritation:	Practically None [rabbit]
Skin sensitization:	None Buehler method [guinea pig]
Mutagenicity:	Ames Test: Negative
Carcinogenicity:	EU: Category 2 : R45 need not apply. (NOTE L is Applicable), IARC:3

12. Ecological information

Product

Ecotoxicity	
Fish acute toxicity:	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Algae acute toxicity:	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Fish chronic toxicity:	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Algae chronic toxicity:	For mixtures, hazard category was identified based on the classification criteria for mixtures.

Ingredient
 Base Oil(s)

Ecotoxicity	
Fish acute toxicity:	96hLC50: > 5000 mg/L [Oncorhynchus mykiss]

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Daphnia acute toxicity: 48hEC50:> 1000 mg/L[Daphnia magna]

13. Disposal considerations

Disposal methods: Dispose of contents/container in accordance with local/regional/national/international regulations.
 Every customer/user of the product should dispose of industrial waste on its own responsibility, otherwise it must rely on a company authorized by prefectural governor for treating industrial waste or a local public body involved in the disposal of industrial waste for proper disposal.
 Before disposal of used container, remove contents completely.

14. Transport information

IMDG UN classification: Not applicable
 Specific security precaution and condition of transportation: Transport containers without causing any significant friction or shaking.

15. Regulatory information

Korea(KECL) : In the case where one or more components are not listed or, even if listed, in the case of importing to the country or area concerned, an application or notification is required.
 Australia(AICS) : In the case where one or more components are not listed or, even if listed, in the case of importing to the country or area concerned, an application or notification is required.
 Canada(DSL) : In the case where one or more components are not listed or, even if listed, in the case of importing to the country or area concerned, an application or notification is required.
 China(IECSC) : In the case where one or more components are not listed or, even if listed, in the case of importing to the country or area concerned, an application or notification is required.
 EU(REACH) : In the case where one or more components are not listed or, even if listed, in the case of importing to the country or area concerned, an application or notification is required.
 New Zealand(NZIoC) : In the case where one or more components are not listed or, even if listed, in the case of importing to the country or area concerned, an application or notification is required.
 USA(TSCA) : All components are listed or exempted.
 Philippines(PICCS) : In the case where one or more components are not listed or, even if listed, in the case of importing to the country or area concerned, an application or notification is required.
 Taiwan : In the case where one or more components are not listed or, even if listed, in the case of importing to the country or area concerned, an application or notification is required.

16. Other information

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Disclaimer

We at JX Nippon Oil & Energy Corporation have prepared the copyrighted Safety Data Sheet to provide reference information on the hazardous chemical product of interest for our customers/users to ensure secure and safe handling.

We would like every customer/user of the product to refer to the information and understand the necessity of taking appropriate measures for the actual handling conditions on their own responsibilities for optimum practical application of the product of interest.

Consequently, the Safety Data Sheet is not intended to guarantee the safety of the product referenced to herein.