



Safety Data Sheet

Conforms to HCS 2012 (29 CFR 1910.1200)

1. Identification

Product Name HB-1128 STARFILM Industrial Gear Oil EP All Weights	Issuing Date November, 2015
Other Name Patriot Series	Revision Date January, 2023
Part/Product Number(s) HB1128	Revision number 005
Material Use Gear oil , lubricant	Company Contact Email: bjohnson@hbind.com Contact Phone 214-350-1984 Monday-Friday 8am-4pm CST
Uses advised against All Others Manufacturer H&B Industries, Inc	In case of emergency (INFOTRAC) 800-535-5053

2. Hazards Identification

OSHA/HSC Status	This product not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Classification of the substance or	Not Classified
GHS Label Elements	Hazard Pictograms: No pictogram Signal Word: No signal word Hazard Stement: No known significant effects or critical hazards
Precautionary statements	General: read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Prevention: Not applicable Response: Not applicable Storage: Not applicable Disposal: Not applicable
Hazards not otherwise classified (HNOC)	Defatting to skin. Hot motor oil may cause potentially serious burns.
Other information	USED MOTOR OILS-Used motor oils may contain hazardous components which may have the potential to cause skin cancer. See toxilogical information, section 11 of this Safety Data Sheet



3. Composition/Information on Ingredients

Petroleum mineral oil lubricant base stock with proprietary additives mixture.

Substance mixture: Mixture

<u>Components Name</u>	<u>CAS Number</u>	<u>Weight %**</u>
Solvent-Dewaxed Heavy Paraffinic Distillates (Petroleum)	64742-65-0	40-85
Hydrotreated Distillates, Heavy Paraffinic	64742-54-7	5-25
Additive Package	Mixture	10-40
This product does not contain known hazardous materials at the <1% level as defined by 29 CFR 1910-1200.		
Contains one or more of the following CAS #'s: 64742-52-5, 64742-54-7, 64742-65-0, 64742-56-9, 64742-47-8, 64742-01-4, 64742-53-6, 64742-71-8		
*The exact percentage of composition has been withheld as a trade secret.		

4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed
Eye	Flush with large amount of water for 15 minutes. Get medical attention if eye irritation develops or persists.	If material is hot, treat for thermal burns and take victim to the hospital immediately.	
Skin	Wash with soap and water. Remove contaminated clothes and wash before reuse. Get medical attention if skin discoloration		
Inhalation	This material is not expected to present an inhalation exposure at ambient conditions		
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Get immediate medical attention or advice.		
Other	Not available		
Note to Physicians (Treatment, Testing, and Monitoring)			
Treat symptomatically			



5. Fire Fighting Measures

Flashpoint Method:	°F	Flammable (Explosive) Limits in Air		Autoignition Temperature		°F
COC	430	LEL	UEL	(>353°C)		729
Flame Propagation or Burning Rate (for Solids)		Properties Contributing to Fire Intensity		Flammability Classification		
Not Available		Not Determined		Not Available		
Extinguishing Media		Extinguishing Media to Avoid			Reactions to Extinguishing Media	
Water fog, foam, CO ₂ , dry chemical		Not Available			Not Available	
Protection and Procedure for Firefighters						
Wear positive pressure self-contained breathing apparatus (SCUBA). Use water to cool containers exposed to flames. Structural firefighters' protective clothing will only provide limited protection.						
Unusual Fire and Explosion Hazards						
Mist or sprays may be flammable below the product normal flash point.						

6. Accidental Release Measures

Personal Precautions/methods for containment/clean up
Use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. If spilled, take caution, as material can cause surfaces to become very slippery. Dike far ahead of liquid spill for later disposal. Pick up free liquid for recycle and/or disposal. Residual liquid and/or solid can be absorbed on inert material.
Evacuation Procedures
Large spill *Consider initial downwind evacuate for at least 300 meters (1000 feet).
Fire *If tank, rail car or tank car is involved in a fire, isolate for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions.
Special Instructions
When using this material, do not eat, drink or smoke. Wash thoroughly after handling. Keep away from animals and children.
Reporting Requirements
Spills that enter a water body must be reported immediately to the U.S. EPA's National Response Center at (800)546-2972. Check with your local and state regulators regarding their reporting requirements.

7. Handling and Storage

Precautions for safe handling

Protective measures: Eye protection, Do not pressure, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode. See NFPA 30 and OSHA 1910.106 – flammable and combustible liquids. See section 8

Advise on general occupational hygiene: Do not get in eyes, on skin or in clothing. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See section 8 for additional information on hygiene measures.

Conditions for safe Storage: Store away from heat, sparks, open flame, or strong oxidizing agents in closed and properly labeled containers. Empty containers retain product residue (liquid, and/or vapor) and can be dangerous. See section 10

Bulk material handling: Static hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient.

8. Exposure Control/Personal Protection

Control parameters

Occupational exposure limits

Chemical Name	ACGIH TLV	STEL	OSHA PEL	NIOSH IDLH
Lubricants Base Oils (petroleum)	5mg/m3 Mist	10mg/m3	5mg/m3 8 hour(s). Form:	-----
Highly refined mineral oils (C15-C50)	Mist	Mist	5mg/m3 8 hour(s). Form: Mist	
<u>Appropriate Engineering</u>	Good general Ventilation should be sufficient to control worker exposure to airborne contaminants.			
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.			
Individual protection measures	Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of working period. Appropriate techniques should be used to remove potentially contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.			
Eye/Face Protection	Wear Safety glasses with side shields. A face shield may be necessary under some conditions. .			
Skin and body protection	Hand protection: Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves. Consult your supervisor or standard operating procedure (SOP) for special handling instructions. Body protection: No protective equipment is needed under normal use conditions. For non-routine tasks, personal protection equipment for the body should be selected based on the task being performed and the risks involved.			
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.			
Respiratory protection	No respiratory protection is normally required. If user Operation generates an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from measured concentrations of this material. The correct choice of respiratory depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. For air purifying respirator in circumstances where air purifying respirators may not provide adequate protection.			



9. Physical and Chemical Properties

Appearance amber liquid		Odor Mild Petroleum Odor	
Normal Physical State: <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> Solid <input type="checkbox"/> Other		Boiling Point 829 °F	Melting Point 32 °F
		Pour Point N/A °F	
Specific Gravity or Density (H ₂ O=1) 0.89	Solubility in Water Negligible	pH N/A	
Vapor Pressure (mm Hg) <0.01	Vapor Density (AIR=1) Not Determined	Evaporation Rate (Butyl Acetate=1) N/A	
Other None			

10. Stability and Reactivity

Incompatibility (Materials to Avoid) Open flame and oxidizing agents.		
Hazardous Products Produced During Decomposition Combustion products may include smoke, fumes, oxides of phosphorus, boron, sulfur, nitrogen, carbon dioxide, carbon monoxide, and other low molecular weight hydrocarbons.		
Hazardous Polymerization?	May Occur <input checked="" type="checkbox"/> Will Not Occur	Conditions to Avoid
Stability?	<input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	Conditions to Avoid Heat, flame, sparks

11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data

Acute Toxicity: Test on similar materials show a low order of acute oral and dermal toxicity.

Acute Oral Effects: Test on similar materials indicates low order of acute toxicity.

Acute Inhalation Effects: Low acute toxicity expected on inhalation.

Skin Effects: Practically non-toxic if absorbed. Other similar highly refined products have not shown skin tumors in mouse skin painting studies.

Eye Irritation: Minimal irritation on contact. Eye irritation slightly or practically non-irritating base on similar products.

Chronic Toxicity:

Chronic Toxicity: Prolonged exposure may cause chronic effects. On rare occasions, prolonged and repeated exposure

to oil mist poses a risk of pulmonary disease such as chronic lung inflammation. This condition is usually asymptomatic as

a result of repeated small aspirations.

Carcinogenicity: Not considered a potential carcinogen base on IP346 DMSO of less than 3.0 wt%

Target Organ Effects: Respiratory system, Eyes, Skin

Genotoxicity: This product is considered non-mutagenic and has negative potential for tumor development based on from Modified Ames Assay, with Mutagenic Index of less than 1.0.

Aspiration Hazard: Not expected

Skin Corrosion: May cause mild skin irritation. Repeated exposure may cause skin dryness or cracking.

Serious Eye damage/irritation: May cause mild eye irritation.

Skin sensitization: No information on the mixture, however none of the components have been classified for skin sensitization.

Specific Target Organ Toxicity/single exposure: No information on the mixture, however none of the components have been classified for target organ toxicity.

Specific Target Organ Toxicity/repeated exposure: No information on the mixture, however none of the components have been classified for target organ toxicity.

Carcinogenicity: : No information on the mixture, however none of the components have been classified for carcinogenicity.

Germ cell mutagenicity: : No information on the mixture, however none of the components have been classified for germ cell mutagenicity.

Reproductive toxicity: : No information on the mixture, however none of the components have been classified for reproductive toxicity.

Information on toxicity effects of compounds

Lubricant base mineral oil (petroleum)

Mineral oils are known to cause cancer because of carcinogenic components (e.g. Benzene). The lubricant base mineral oils in this product have been highly refined by a variety of processes including severe solvent extraction, severe hydrocracking or severe hydro treating to reduce aromatics and improve performance characteristics. The oils in this product meet the IP-346 criteria of less than 3 percent PHA's and are not considered to be carcinogen by the international agency for research on cancer.

None of the oils in this product require a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) annual report nor have they been classified by the international agency for research on cancer (IRAC) as: carcinogenic to humans (group 1), probably carcinogenic to humans (group 2a), or possibly carcinogenic to humans (group 2b). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3)

Used Motor Oils: During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used engine oils have shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used oil is not expected to have serious effects on humans if the oil is thoroughly removed by washing with soap and water.

Numerical measures of toxicity

Unknown Acute Toxicity: 0% of the mixture consists of ingredients of unknown toxicity.

Acute toxic estimates: There is no data available.

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral)-There is no data available.

ATEmix (dermal)-There is no data available.

12. Ecological Information

The information is based on data available for the material, the components of the material, and similar materials.

Ecotoxicity: Not expected to be harmful to aquatic organisms.

Mobility: Base oil component – Low solubility and floats and is expected to migrate from water to land. Expected to partition to sediment and wastewater solids.

Soil/water partition

coefficient (Koc): Not available.

Persistence and degradation

Biodegradation: Base oil component – Expected to be inherently biodegradable.

Bioaccumulative potential

Bioaccumulation: This product is not expected to bioaccumulate through food chain in the environment.

Other adverse effects: No known significant effects or critical hazards.

Other ecological information: Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

13. Disposal Considerations

Note: State or local requirements may differ from federal regulations. Processing or using this product may make the information here inappropriate. Waste generators are responsible for waste classification, transport, and disposal.

Disposal recommendations based on material supplied.

Waste treatment methods

Product waste: Significant quantities of waste product residues should not be disposed of via the sanitary sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Incineration or landfill should only be considered when recycling is not feasible. Oil collection services are available for used oil recycling.

Contaminated packaging: Empty containers or liners may retain some product residues and could pose a potential fire and explosion hazard.

Do not cut, puncture, or weld containers.

Other information: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.



14. Transport Information

General information: Petroleum lubricating oil - Not regulated.

DOT Classification

IMDG

IATA

UN Number

Not Regulated

Not Regulated

Not Regulated

Proper Shipping Name

Petroleum lubrication oil

Petroleum lubrication oil

Petroleum lubrication oil

Hazard class(s)

-

-

-

Packaging group

-

-





15. Regulatory Information

Federal Regulations (OSHA, TSCA, CERCLA, FIFRA, EPCRA, CAA, CWA, SDWA, CPSA, DEA, FDA/USDA, etc.)

State Regulations

U.S. Federal Regulatory Information:

CERCLA/SARA

302/303/304 Categories:
(40 CFR 355 Appendix A)

311/312 Categories:
(40 CFR 370)

313 Categories:

Clean Air Act:

Clean Water Act:

(40 CFR 116; 401.15)

OSHA (29 CFR 1910):

RCRA (40 CFR 261.133)

EPA/TSCA Inventory:

CAS No. 64742-52-5

Extremely Hazardous Substances	No
Immediate (Acute) Health Effects	No
Delayed (Chronic) Health Effects	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactivity Hazard	No
Toxic Chemicals (40 CFR 372)	No
Hazardous Air Pollutants (HAPS)	No

If spilled into navigable waters it is reportable to National Response Center, 800-424-8802

Reportable Quantity = Oil Sheen present on navigable water surface

This product is not hazardous under Hazard Communication Standard 29 CFR 1910.1200

This product does not meet hazardous waste criteria.

The components of this product are listed on the EPA/TSCA inventory of chemicals.

State Regulations:

California Prop 65 No Proposition 65 chemicals exist in this product, no labeling required. Florida No listed ingredients are present

Massachusetts RTK No listed ingredients are present

Minnesota RTK No listed ingredients are present

New Jersey RTK Lists petroleum oil, but this product does not contain hazardous ingredients.

Pennsylvania RTK Lists petroleum oil, but this product does not contain hazardous ingredients greater than 3%. Illinois DOL TSL No listed ingredients are present

Other Regulations:

WHMIS (Canada) Not listed on the Canadian Controlled Product Ingredient Disclosure and is compliant with Controlled Products Regulation

CONEG Metals: Since cadmium, chromium, lead and mercury are not detectable and it does not exceed 100 ppm total in this product, it is

compliant with

CONEG Metals regulation.

EEC (Europe): This product is not known to be a dangerous good internationally.

No known R-Phrases or S-Phrases

Hazard Label None

Danger Symbol None

International Regulations

N/A

Other

Not all ingredients will be present in some finished products.



16. Other Information

Label Text, Hazard Rating System, Key Legend, or Other

Abbreviations:

ACGIH(American Conference of Governmental Industrial Hygienists); ANSI(American National Standards Institute); CAS(Chemical Abstract Service); CERCLA(Comprehensive Environmental Response, Compensation, & Liability Act); CFR(Code of Federal Regulations); CHIP (Chemicals Hazard Information & Packaging for Supply); CONCAWE (European Organization for Environment, Health & Safety); CPR(Controlled Products Regulations); DOL (Department of Labor); EED(European Economic Community Directives); EINECS (European Inventory of Existing Commercial Chemical Substances); EL50 (Effective loading rate required to immobilize 50% invertebrate species); ELINCS(European List of New Chemical Substances); EPA (Environmental Protection Agency); EPCRA(Emergency Planning & Community Right-To-Know Act of 1986); EU(European Union); FDA(Food & Drug Administration-USA); GHS (Global Harmonization System); HCS (Hazard Communication Standard); IARC(International Agency for Research on Cancer); ILO(International Labor Organization); LC50(Lethal Concentration 50% test organisms); LD50(Lethal Dose 50% test organisms); LVP-VOC(Low Vapor Pressure Volatile Organic Compound); MSDS(Material Safety Data Sheet); MSHA(Mine Safety & Health Administration); NIOSH(National Institute of Occupational Safety & Health);NTP(National Toxicology Program); OSHA(Occupational Safety & Health Administration); PEL(Permissible Exposure Limit); Prop 65(California Proposition 65); PMCC(Pensky Martin Closed Cup); RCRA(Resource Conservation & Recovery Act); RTK(Right-To-Know); R-Phrases(EU Risk Phrases; S-Phrases (EU Safety Phrases); SARA(Superfund Amendments & Reauthorization Act); TSCA (Toxic Substances Control Act); TSL (Toxic Substance List); TLV(Threshold Limit Value); WHMIS(Workplace Hazardous Materials Information System- Canada); IrL50 (Inhibitory loading rate required to reduce algal growth rate by 50%; lbL50 (Inhibitory loading rate required to reduce area under growth curve or biomass by 50%); ppm (parts per million); mg/m3 (milligrams per cubic meter); N(no); Y (yes)

NFPA Hazard Rating – Health 0 Slight
Fire 1 Slight
Reactivity 0 Least

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This MSDS complies with OSHA Hazard Communication Standard (HCS) 29 CFR 1910.1200 and conforms to ANSI Z 400.1 16-Section Format.

Disclaimer: Network Lubricants believes this information is accurate but not all-inclusive in all circumstances. It is the responsibility of the user to determine suitability of the material for their purposes. No warranty, expressed or implied, is given.

NOTE: OSHA's Hazard Communication Standard (29 CFR 1910.1200) does not require the information requested in Sections 11, 12, 13, 4, 15, and 16 for MSDSs. If your company chooses not to fill in these sections, you may wish to enter something (like N/R for "not regulated" or N/A for "not applicable") to indicate that the field is purposely being left blank.

While H&B Industries, Inc. believes this data is accurate as of revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance there on. The data is offered solely for your information, investigation, and verification.