

Safety Data Sheet Conforms to HCS 2012 (29 CFR 1910.1200)

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Product Name	Issuing Date
HB-1228 SYNGEAR EP 100, 150, 220	November, 2015
Other Name	Revision Date
SYNGEAR	January, 2018
Part/Product Number(s)	Revision number
hb1228	002
Material Use	Company Contact
Hydraulic oil , lubricant	Email: bjohnson@hbind.com Contact Phone 214-350-1984
	Monday-Friday 8am-4pm CST
Uses advised against	In case of emergency
All Others	(INFOTRAC) USA-CANADA: (800) 535-5053 (24/7)
Manufactuer	
H&B Industries, Inc	

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 Shee				

3.Composition/Information on Ingredients					
Petroleum mineral oil lubricant base stock with proprietary additives mixture.					
Substance mixture: Mixture					
Components Name	CAS Number	Weight %**			
Base Oil	Mixture	85-95			
Proprietary Additives	Mixture	5-15			
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 (Tr	eatment, Testing, and Monitoring)				
Treat symptomatically					

				5. Fire Fi	ghtin	Measures		
Flashpoint Flammable (Explosive) Limits in Air Autoignition								
Method:	°F	LE	L	UEL		Temperature	°F	
COC	550	Not Dete		Not Determined		n/a	n/a	
Flame Propa Rate (for Solids	0	-	ties Contributing to Fire Intensity	Flammability Classification		ication	
	Available		Not Determined Not Available					
Water fog, ch	emical	₂ , dry		tinguishing Media to Avoid Reaction Not Available		actions to Extinguishing Media Not Available		
Protection and				1 P				
Wear positive protective cloth					A). Use v	ater to cool con	tainers e	xposed to flames. Structural firefighters'
Unusual Fire a	nd Explos	sion Hazard	s		-			
<u> </u>	1 (1	11.1		product normal flash p	• .			
Mist or sprays	may be m	ammable be	elow the p	broduct normal flash p	oint.			
				6. Accidenta	al Rele	ase Measu	res	
Personal Preca	autions/me	ethods for c	ontainmei	nt/clean up				
can cause surf	faces to be	come very :	lippery. I					tilation. If spilled, take caution, as material ree liquid for recycle and/or disposal.
Evacuation Pr		- 1						
Large spill			6					
*Consider	initial dov	wnwind eva	cuate for	at least 300 meters (10	000 feet)			57/
Fire *If tank, ra meters (1/2 m			nvolved in	n a fire, isolate for 800) meters	(1/2 mile) in all	direction	is; also consider initial evacuation for 800
Special Instructions								
When using the	his materia	al, do not ea	t, drink o	r smoke. Wash thorou	ighly aft	r handling. Kee	ep away f	rom animals and children.
Reporting Rec	quirement	S						
				ed immediately to the orting requirements.	U.S. EP	A's National Re	esponse C	Center at (800)546-2972. Check with your

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 hygene: 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 (petr	roleum) 5mg/m3 Mist 10mg/m3 5mg/m3 8 hour(s). Form:					
Highly refined mineral oil	s (C15-C50) Mist Mist					
/	5mg/m3 8 hour(s). Form:					
	Mist					
Appropriate Engineering Environmental exposure controls	Good general Ventilation should be sufficient to control worker exposure to airborne contaminents. Emissions from ventilation or work process equipment should be checked to ensure they comply with thr 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	>•••••••••••••••••••••••••••••••••••••				Odor
Very Dark Brown Liquid					Mild Petroleum Odor
	Physical State: X Liquid □ Solid	□ Gas □ Other	Boiling Point Pour Point Viscosity	N/D, I	Expected to be >260 °C (500°F) -18 °C (0°F) 26.5 cSt @ 100 °C (212°F) 375 cSt @ 40°C (104°F)
Specific Gravity or Density (H ₂ O=1)	Solubilit Negligib	y in Water le	EI.	pH N/A	
Vapor Pressure (mm Hg) Negligible	Vapor Densit Not Determin		Evapora N/A	tion Rat	e (Butyl Acetate=1)
Other None					
	10. Sta	bility and Rea	activity		
Incompatibility (Materials to Avoid) Open flame and oxidizing agents.	*				
Hazardous Products Produced During	Decomposition				
Combustion products may include smo other low molecular weight hydrocarbo	ke, fumes, oxides of ph	osphorus, boron, su	ılfur, nitrogen, c <mark>arb</mark> on dic	xide, ca	rbon monoxide, and
Hazardous Polymerization?	May Occur	X Will Not O	ccur		Conditions to Avoid
Stability? X Stable	Unstable				Conditions to Avoid Heat, flame, sparks
			BR		

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 continous exposure. Breif 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 estiments: 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)

-

-

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Packaging group

-

-

15. Regulatory Information

Federal Regulations (OSHA, TSCA, CF	ERCLA, FIFRA, EPCRA, CAA, CWA, SD	WA, CPSA, DEA, FDA/USDA, etc.)			
,	,,,,,,,,	,,,,			
State Regulations					
U.S. Federal Regulatory Information					
CERCLA/SARA	- BIAL				
302/303/304 Categories: (40 CFR 355 Appendix A)	Extremely Hazardous Substances	No			
311/312 Categories:	Immediate (Acute) Health Effects	No			
(40 CFR 370)	Delayed (Chronic) Health Effects	No			
	Fire Hazard	No			
	Sudden Release of Pressure Hazard	No			
313 Categories:	Reactivity Hazard Toxic Chemicals (40 CFR 372)	No No			
Clean Air Act:	Hazardous Air Pollutants (HAPS)	No			
Clean Water Act:	If spilled into navigable waters it is re	portable to National Response Center, 800-424-8802			
(40 CFR 116; 401.15)	Reportable Quantity = Oil Sheen pres	sent on navigable water surface			
OSHA (29 CFR 1910):		r Hazard Communication Standard 29 CFR 1910.1200			
RCRA (40 CFR 261.133) EPA/TSCA Inventory:	This product does not meet hazardo	e listed on the EPA/TSCA inventory of chemicals.			
CAS No. 64742-5		e instea on the ELTY ISENT 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 RTKLists 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:					
		sure 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 **Prepared By** :R.S. **Phone:** (318) 918-5209

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

Disclaimer: H&B Industries 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

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