






MATERIAL SAFETY DATA SHEET

Revision date : 1/10/2019
 MSDS No. : M1402-SC

General Overview																			
Product Name	Bardahl Racer Premium 4T-J Scooter Engine Oil																		
Product Grade	10W-40																		
Physical State	Liquid																		
Colour	Light to Amber																		
Odour	Mild petroleum odour																		
Caution	<p>Hot oil can cause thermal burns on contact Used motor oil has been associated with skin cancer in laboratory animals following extended contacts Spills may create spilling hazards.</p> <table border="1" data-bbox="571 795 938 1037"> <thead> <tr> <th colspan="3">Hazard Rankings</th> </tr> <tr> <th></th> <th>HMIS</th> <th>NFPA</th> </tr> </thead> <tbody> <tr> <td>Health</td> <td>1</td> <td>0</td> </tr> <tr> <td>Fire Hazard</td> <td>1</td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>0</td> <td>0</td> </tr> </tbody> </table> <p>* = Chronic Health Hazard</p> <table border="1" data-bbox="983 795 1350 1037"> <thead> <tr> <th>Protective Equipment</th> </tr> </thead> <tbody> <tr> <td>Minimum Recommended See Section 8 for Details</td> </tr> <tr> <td align="center">  </td> </tr> </tbody> </table>	Hazard Rankings				HMIS	NFPA	Health	1	0	Fire Hazard	1	1	Reactivity	0	0	Protective Equipment	Minimum Recommended See Section 8 for Details	
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Section 1	Identification																		
Product Grade	10W-40																		
Product Code	NB32401-J																		
Product Type	4-stroke scooter engine oil																		
UN Number	Not regulated																		
CAS Number	None (mixture)																		
Supplier	Bardahl Asia Pacific Pte Ltd 33 Ubi Avenue 3 #07-51 Vertex Singapore 408868																		
Telephone	65-6634 0600																		
Fax	65-6634 0900																		
Section 2	Composition and Ingredients																		
Components	CAS No Approx. %																		
Petroleum distillates	May include some or all of these: 64742-55-8 , 64742-54-7 80 - 92																		
Proprietary ingredients	Mixtures which may include some or all of these: 25038-36-2 2 - 10																		
Zinc or zinc compounds	May include 68649-42-3 0-2																		
	The chemical identity of some or all of the above ingredients is confidential information and may be withheld as permitted under 29CFR 1910.1200. All the components of this material are listed on the TSCA Chemical Substances Inventory.																		

Section 3		Hazards Identification	
Major route(s) of entry	Skin contact.		
Inhalation	No significant adverse health effects are expected to occur upon short-term exposure. At elevated temperatures, and/or in enclosed spaces, product mist or vapors may irritate the mucous membranes of the nose, throat, bronchi and lungs.		
Skin contact	This material can cause skin irritation from prolonged or repeated contact. Injection under the skin can cause inflammation and swelling. Injection of pressurised hydrocarbons can cause severe permanent tissue damage. Initial symptoms may be minor. Injection of petroleum hydrocarbons requires immediate medical attention.		
Eye contact	This product can cause transient mild eye irritation with short-term contact with liquid sprays or mists. Symptoms include stinging, watering, redness and swelling.		
Ingestion	If swallowed, large volumes of material can cause generalized depression, headache, drowsiness, nausea, vomiting and diarrhea. Smaller doses can cause a laxative effect. If aspirated into the lungs, liquid can cause lung damage.		
Chronic Health Effects Summary	This product contains a petroleum-based mineral oil. Prolonged or repeated skin contact can cause mild irritation and inflammation characterized by drying, cracking, (dermatitis) or oil acne. Repeated or prolonged inhalation of petroleum-based mineral oil mists at concentration above applicable workplace exposure levels can cause respiratory irritation or other pulmonary effects.		
Conditions aggravated by Exposure	Disorders of the following organs or organ systems that may be aggravated by significant exposure to this material or its components include:		
Target Organs	This material may cause damage to the following organs:		
Carcinogen	This product is not known to contain any component at concentration above 0.1% which are considered carcinogenic by OSHA, IARC or NTP.		
Section 4		First Aid Measures	
Eyes	Check for and remove contact lenses. Flush eyes immediately with fresh water for several minutes while holding the eyelids open. If irritation persists, see a doctor.		
Skin	If burned by hot material, cool skin by quenching with large amount of cold water. For shoes and clothing. Wipe off excess material. Wash exposed skin with mild soap and water. Seek medical attention if tissue appears damaged or pain/irritation persists. Thoroughly clean contaminated clothing before reuse. Discard contaminated leather goods. If material is injected under the skin, seek medical attention immediately.		
Ingestion	Do not induce vomiting except on advice of medical personnel. Do not give anything to drink unless directed by a physician. Never give anything by mouth to a person who is not fully conscious. If significant amounts are swallowed or irritation or discomfort occurs, seek medical help immediately.		
Inhalation	Vaporization is not expected at ambient temperatures. This material is not expected to cause inhalation-related disorders under anticipated conditions of use. In case of overexposure, move the person to fresh air.		
Notes to Physician	Treatment should be controlled by symptoms and clinical conditions. Emesis maybe induced under medical supervision. In general, emesis induction is unnecessary in such high viscosity, low volatility product. SKIN: In the event of injection in underlying tissue, immediate treatment should include extensive incision, debridement, and saline irrigation. Inadequate treatment can result in ischemia and gangrene. Early symptoms maybe minimal.		

Section 5		Fire Fighting Measures	
Flammability Classification		NFPA Class-IIIB combustible material	
Auto Ignition Temp.		Not available	
Flammable limits		Not determined	
Flash Point, °C		> 200°C (COC)	
Extinguishing Media		Use water fog, dry chemical, foam or carbon dioxide type. Water or foam may cause frothing. Use water to cool fire-exposed containers. If a spill or leak has not ignited, use water spray to disperse the vapour and provide protection to personnel attempting to stop the leak.	
Explosion / Fire Hazards		For fires involving this material, do not enter any enclosed or confined space without self-contained breathing apparatus to protect against the hazardous effects of combustion products or oxygen deficiency.	
Hazardous Combustion Products		Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and trace oxides of sulphur and/or nitrogen.	
Section 6		Accidental Release Measures	
In case of Spill		Stop the source of leak or release and contain spill if possible. Ventilate the area. Use respirator and protective clothing as discussed in this MSDS. Collect with absorbent material and place in appropriate, labeled containers for disposal, or if permitted, flush spilled area with water.	
Section 7		Handling and Storage	
Handling		Avoid contamination and extreme temperatures to minimize product degradation. Empty containers may contain product residues that can ignite with explosive force. Do not pressurize, cut, weld, braze, solder, drill or grind containers. Do not expose product containers to flames, spark, heat or other potential ignition sources.	
Storage		Keep containers closed. Do not store with strong oxidizing agents. Do not store at elevated temperatures. Avoid storing in direct sunlight for extended periods of time. Consult appropriate federal, state or local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers and/or waste residues of this product.	
Section 8		Exposure Controls / Personal Protection	
Ventilation		Use general ventilation or local exhaust as required to maintain exposures below the occupational exposure limits.	
Eyes		Avoid eye contact. The wearing of chemical safety goggles or face shield is recommended. Have suitable eye wash water available.	
Skin		Exposed personnel should exercise reasonable personal cleanliness; this includes cleansing exposed area several times daily with soap and water, and laundering or dry cleaning soiled work clothing at least weekly. Safety shower is recommended near the work station.	
Inhalation		Respiratory protection is normally not required. However, if operating conditions create airborne concentrations, which exceed the recommended exposure standard(s), the use of an approved respirator is recommended.	
Hand Protection		Use gloves of chemical resistant materials such as neoprene or heavy nitrile rubber or appropriate barrier cream with prolonged or repeated contact. If the product is processed or handled at elevated temperatures, protect against thermal burns by using heat-resistant (insulated) gloves. Do not wear gloves or loose fitting clothing around rotating or moving equipment.	
Clothing Recommendations		Long sleeve shirt is recommended. Wear a chemically protective apron if available. Do not wear rings, watches, or similar apparel that could entrap the material and cause a skin reaction.	

Exposure limits	Oil mist, mineral	ACGIH TLV (USA) TWA: 5 mg/m ³ 8 hrs STEL: 10 mg/m ³ 15 minutes OSHA PEL (USA) TWA: 5 mg/m ³ 8 hrs
Section 9 Physical and Chemical Properties (Typical)		
SAE Grade	10W-40	
Flash Point, °C	210	
Density @ 15°C, kg/l	0.868	
Viscosity@40°C, cSt	96.69	
Viscosity@100°C cSt	14.0	
Appearance	Light to Amber	
Odour	Mild petroleum odour	
Boiling Range	Not determined	
Vapour Pressure	< 0.1 mmHg @ 25 deg C	
pH	Not determined	
Solubility in water	Insoluble	
Percent volatile	Negligible	
Evaporation	Not determined	
Section 10 Stability and Reactivity		
Stability	Stable	
Conditions to avoid	Avoid heating to decomposition	
Incompatibility	Normally unreactive, however, avoid strong bases at high temperatures, strong acids, strong oxidising agents and materials reactive with hydroxyl compounds.	
Hazardous Decomposition products	No additional hazardous decomposition products were identified other than the combustion products identified in Section 5.	
Hazardous polymerization	Will not occur	
Section 11 Toxicity Information		
Toxicity Data	Distillates, residue oils, petroleum light and heavy paraffinic: ORAL (LD50) Acute: > 5000 mg/kg [Rat] DERMAL (LD50) Acute: > 2000 mg/kg [Rabbit]	
Primary routes of Entry or Exposure	Skin absorption, eye contact and inhalation	
Inhalation	Exposure to vapor or mist is possible. High gas, vapor or mist concentration may be harmful if inhaled repeatedly or for prolonged periods of time, based on data from components or similar products.	
Skin	Not expected to cause skin irritation or injury during normal use, based on toxicology tests of this product. Prolonged or repeated skin contact may cause skin irritation including redness, burning, drying, cracking, skin burns, dermatitis, oil acne and folliculitis based on data from components	
Eye	Not expected to cause eye irritation or injury during normal use, based on toxicology tests of this product.	
Ingestion	Single dose toxicity is low, based on toxicology tests of this product	
Acute Toxicity	Pre-existing skin and respiratory disorders may be aggravated by exposure, based on data from components and similar products. Health studies have	

	shown petroleum hydrocarbons and synthetic lubricants pose potential human health risks, which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimised.
Chronic Toxicity	No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. Reports have associated repeated and prolonged overexposure to solvents with permanent nervous system damage.
Other information	Symptoms of overexposure could include: Gastrointestinal irritation (nausea, vomiting, diarrhea), irritation (nose, throat, respiratory tract), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness, effects on hearing). Used engine oil was associated with cancer in lifetime skin painting studies with laboratory animals. Avoid prolonged or repeated contact with used motor oil. Good hygiene practices will reduce the likelihood of potential health effects
Section 12 Ecology Information	
Ecotoxicity	Analysis on ecological effects has not been conducted on this product. However, if spilled, this product and any contaminated soil or water may be harmful to human, animal and aquatic life. Also the coating action associated with petroleum and petroleum products can be harmful or fatal to aquatic life and waterfowl.
Environmental Fate	An environmental fate analysis has not been conducted on this specific product. Plants and animals may experience harmful or fatal effects when coated with petroleum-based products. Petroleum-based (mineral) lube oils will normally float on water. In stagnant or slow flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in waterway can result in a loss of marine life or create an anaerobic environment.
Section 13 Disposal Information	
Waste disposal	Check governmental regulations and local authorities for approved disposal. Under RCRA, it is the responsibility of the user of the material to determine at the time of disposal whether the material meets RCRA criteria for hazardous waste. This is because material uses, transformations, mixtures, processes, etc may affect the classification.
Section 14 Transport Information	
US DOT Hazard Classification	Proper Shipping Name: None UN Number: None Labels Required: None This product is not subjected to DOT regulations under 49 CFR Parts 171-180.
DOT Marine Pollutants	This product does not contain Marine Pollutants as defined in 49 CFR 171.8.
IMDG Code Shipping Classification	Description: not regulated IMDG Class: not classified
IMDG Marine Pollutant	No
ADR/RID Class	Not Classified
IATA Class	Not Restricted

Section 15		Regulatory Information	
Respirator information	In the absence of local approval authorities/standards, follow US NIOSH/MSHA, UK BSI regulations. Respirators must meet the above or local standards for approved respirators		
TSCA Inventory	This product and/or its components are listed on the Toxic Substances Control Act (TSCA) Inventory.		
Labelling information	None needed		
EC Annex 1 Class	N/A		
R Phrases	N/A		
SARA 302 / 304 Emergency Planning and Notification	The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to emergency planning and notification information based on Threshold Planning Quantity (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No components were identified.		
SARA 311 / 312 Hazard Identification	The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this Subpart to submit aggregated information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material is classified under the following hazard categories: No SARA 311/312 hazard categories identified.		
SARA 313 Toxic Chemical Notification and Release Reporting	This product may contain the following components in concentrations above de minimis levels that are listed as toxic chemicals in 40 CFR Part 372 pursuant to the requirements of Section 313 of SARA: No components were identified.		
CERCLA	The Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning the release of quantities of "hazardous substances" equal to or greater than the Reportable Quantities (RQs) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical substances present in this product or refinery stream that may be subjected to this statute are: No components were identified.		
WHMIS (Canada)	Not regulated		
Canadian DSL	All components are listed		
RCRA Hazardous Class	Non hazardous		
Section 16		Other Information	
None specified for this product.			

While the data contained herein are believed to be factual, and the opinions expressed are those of qualified experts regarding the results of tests conducted, the data are not to be taken as a warranty or representation for which we assume responsibility. They are offered for your consideration, investigation and verification. Any use of these data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.