MITASU OIL CORPORATION

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MATERIAL SAFETY DATA SHEET

1.	**PRODUCT IDENTIFICATION AND COMPANY**	
	Issue Date	01.01.2023
	Validity Period	3 years
	Product Name	**MITASU GREEN ANTIFREEZE/COOLANT CONCENTRATE**
	Product Code	MJ-612
	Producer	**Mitasu Oil Corporation** 1-2-9, Nishi Shimbashi, Minato-Ku,Tokyo, 105-0003, Japan Tel: +81-3-5532-8187. Fax: +81-3-5532-8188 E-mail: info@mitasuoil.co.jp

2.	**COMPOSITION**					
	Description	CAS No.	EINECS No.	EU No.	Conc.	
	Deionized water				4%	
	Ethylene glycol	107-21-1	203-473-3	603-027-00-1	96%	

3.	**HAZARDS IDENTIFICATION**	
	Human Health	Product is hazardous. Harmful or fatal if swallowed.
	Eye Contact	May cause mild irritation.
	Inhalation	Repeated and prolonged over-exposure to mists may cause irritation or discomfort.
	Ingestion	Do not swallow. Toxic by ingestion.
	Safety Hazards	Not classified as flammable but will burn.
	Environmental Hazards	Biodegradable.
4.	**FIRST AID**	
	Eye Contact	Flush eyes with large amount of water until irritation subsides. If irritation persists, get medical attention.
	Skin Contact	Flush with large amount of water; use soap if available. Remove contaminated clothing. If irritation persists, get medical attention.
	Inhalation	Remove to fresh air. If rapid recovery does not occur, get medical attention.
	Ingestion	Do not induce vomiting. Seek immediate medical attention.

5.	**FIRE SAFETY**								
	Flash Point	>	111	°C					
	Flammable Limit	Not classified as flammable but will burn. Hazardous combustion products may include carbon oxides, aldehydes, ketones, and unidentified organic and inorganic compounds.							
	Autoignition Temp	>	400	°C					
	Specific Hazards	Not classified as flammable but will burn. Hazardous combustion products may include carbon oxides, aldehydes, ketones, and unidentified organic and inorganic compounds.							
	Fire Fighting	Use dry chemical, foam or carbon dioxide to extinguish fire. Water may cause splattering or frothing. Use water to cool and protect fire-exposed material. Wear protective equipment during fire fighting.							
6.	**ACCIDENTAL RELEASE MEASURES**								
	Clean-up Procedure	Stop the source of leak or release and contain spill if possible. Cover spill with generous amount of inert absorbent material such as sand or earth. Sweep up and remove to suitable, clearly marked containers for disposal in accordance with local regulati.							
7.	**HANDLING AND STORAGE**								
	Handling	Handling temperatures should not exceed 70°C. Wear proper safety protective equipment. Wash hands thoroughly after handling. Water contamination and spillage should be avoided.							
	Storage	Storage temperatures should be maintained between 0 to 50°C. Odorous and toxic fumes may be evolved from decomposition of product if stored above the safe temperature.							
8.	**EXPOSURE CONTROL/PERSONAL PROTECTION**								
	Exposure Limits	Threshold Limit Values for oil mist is recommended to be controlled at 5 mg/m3 or lower for exposure of 8 hours daily.							
	Ventilation	Exhaust ventilation to keep below exposure limits.							
	Eye Protection	Wear safety glasses or face shields if splashing is likely to occur.							
	Skin Protection	Avoid repeated and prolonged contact with product. Use oil resistant gloves.							
	Respiratory Protection	Not normally required unless in confined space.							
	Body Protection	Use proper protective equipment to avoid contact. Wear PVC apron if splashes are likely to occur.							
9.	**PHYSICAL AND CHEMICAL PROPERTIES**								
	This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not be construed as guaranteeing any specific property of the product.								
	TEST DESCRIPTION		**UNIT**		**METHOD**		**TYPICAL RESULTS**		
	Color		-		Visual		Green		
	Density at 15 °C		kg/l		D 4052		1,1243		
	Density at 30 °C		kg/l		D 4052		1,1149		

	Pour Point		°C		D 1177		-	
10.	**STABILITY AND REACTIVITY**							
	Stability	Product is stable under normal use conditions.						
	Thermal Decomposition	Carbon oxides, aldehydes, ketones, organic and inorganic compound may evolve when subject to heat or combustion.						
	Hazardous Polymerisation	Will not occur under normal conditions.						
	Incompatible Materials	Strong oxidizing agents.						
11.	**TOXICOLOGICAL INFORMATION**							
	Basis	The product is toxic. Ethylene glycol is more acutely toxic to humans than to animals.						
	Acute Exposure Oral	LD 50 expected to be above 100 ml						
	Acute Exposure Skin	LD 50 expected to be above 2000 mg/kg						
	Inhalation	Repeated or prolonged exposure to mists may cause irritation.						
	Eye Irritation	Slightly irritant.						
	Skin Irritation	Not a skin irritant unless repeated or prolonged contact.						
	Respiratory Irritation	Mild irritant.						
	Carcinogenicity	No data to suggest that product is carcinogenic.						
	Mutagenicity	No data to suggest that product is mutagenic.						
	Other Information	Brief contact with used product is not expected to have serious effect in humans if the product is removed thoroughly by washing with soap and water.						
		Used product is toxic, may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they present risks to health and the environment on disposal. All product should be handled with caution.						
12.	**ECOLOGICAL INFORMATION**							
	Basis	The product is toxic. Ethylene glycol is more acutely toxic to humans than to animals.						
	Mobility	Liquid under most environmental conditions. Floats on water. It is absorbed by soil and will not be mobile.						
	Persistence/ Degradability	Biodegradable.						
	Bioaccumulation	Has not the potential to bioaccumulate.						
	Ecotoxicity	Practically non-toxic to aquatic organisms. Biodegradable.						
13.	**DISPOSAL CONSIDERATION**							

	Product Disposal	Used or waste product should be recycled or disposed off in conformity to local disposal regulations. Contact local authorities for approved disposal contractor.
	Container Disposal	Empty drums should be completely drained and sent to a drum reconditioner or properly disposed of. Non-reusable small containers should be recycled or disposed of. Ensure conformity to local disposal regulations.
14.	**TRANSPORT INFORMATION**	
	General Information	Not dangerous for conveyance under UN, IMO, ADR/RID and IATA/ICAO codes.
15.	**REGULATORY INFORMATION**	
	Not Applicable.	
16.	**OTHER INFORMATION**	
	The above information is based on data of which we are aware and is believed to be correct as of the date hereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose. Therefore, no warranty either express or implied of merchantability or fitness for particular purpose is made with respect to the product or the information contained herein.	