

Generic Material Safety Data Sheet (MSDS) For

Marine Fuels, Distillates, Greases and Lubricant samples (1st January 2023)



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1	Product 1021	Marine Residual Fuel/Marine Distillate consists of variable mixtures of straight run and residual fractions. Likely to contain trace amounts of hydrogen sulphide. Used lubricant is a mix of paraffinic, naphthenic & aromatic petroleum hydrocarbons with carbon deposits, sludge, aromatic and non-aromatic solvents, water-oil emulsion, glycols, wear metals and metallic salts, silicon, fuels, polycyclic aromatic hydrocarbons (PCAH's) and oil additive materials. Greases are composed of all non hazardous material which includes a soap based petroleum compound mixed with various anti-wear and anti-corrosion additives.
2	Hazards Identification	The items are hazardous substance but are not dangerous goods. All items are Not Classified As Flammable. Under Normal Conditions Of Storage And Use Onboard Ships the Product Presents Low Risk For Health Hazard Provided Skin Contact Is Avoided. All Residual Fuels Contain Hydrogen Sulphide Which Is Toxic By Inhalation. Take All Necessary Precautions To Avoid Inhalation Or Exposure To Hydrogen Sulphide.
3	Composition & Information On Ingredients	Fuels are mainly residual and middle distillates of paraffinic, naphthenic or aromatic hydrocarbons originating from straight run, catalytic and thermal cracking processes. Lubes are made from high quality bright stock fractions with additives added. Greases comprise all non hazardous components.
4	First Aid Measures	Inhalation: In Emergency situations use proper Respiratory Protection to immediately remove the affected victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Call for prompt medical attention. <i>Note To Physicians:</i> Administration of 100% oxygen and supportive care is the preferred treatment for poisoning by hydrogen sulphide gas. Skin Contact: Wash thoroughly with plenty of water, using soap if available. Remove contaminated clothing. In case of burns through contact with hot product cool with plenty of running water. Get medical attention. Eye Contact: Rinse immediately with plenty of water until irritation subsides. Splashes of hot product should be immediately flushed with clean water until irritation subsides. Get medical attention. Ingestion: If swallowed DO NOT induce vomiting. Keep at rest and call a physician.
5	Fire Fighting Measures	Product classified as combustible material low hazard. In case of fire use water, fog or spray to cool fire-exposed surfaces. Use foam or dry Chemical Powder to extinguish the fire. Respiratory and eye protection required for fire fighting.
6	Accidental Release Measure	Eliminate all sources of Ignition In vicinity of spilled material. Stop the source of the release safely to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, Observing Precautions In Section 8. Use non-combustible absorbent materials where feasible and appropriate and dispose In accordance with applicable regulations. Prevent liquid from entering sewers, water courses or low lying areas. Advise the relevant authorities if it has or if it contaminates soil/vegetation. Take measures to minimise the effects on ground water. Recover by skimming or pumping using explosion-proof equipment. Report spills to local authorities as required.
7	Handling/Storage	Load/Unload and Storage temperature Up to 60 Deg C. No restrictions on lubricants and greases.
8	Exposure Controls/Personal Protection	Distillates, Petroleum straight run middle (Highly Refined Mineral Oil) ACGIH TLV (United States). TWA: 5 Mg/M ³ 8 Hour(S). Form: Oil Mist, Mineral. Fuel Oil, Residual ACGIH TLV (United States). TWA: 0.2 Mg/M ³ , (Benzene Soluble) Wear Oil/Chemical rated gloves. Wear safety goggles with side shields.
9	Physical And Chemical Properties	Appearance/Odour : Marine residual fuels are black viscous liquids with a petroleum odour. Marine Distillate Fuels may be dark coloured, brown, greenish, pale yellow with petroleum odour. Fuel Flash Point PMCC: 62 Deg C Minimum. Lubricants Flash Point >180 deg C. Grease Not Applicable Density: Residual Fuel 0.9 – 0.99 G/Ml; Distillate Fuel - 0.9 G/Ml Maximum. Auto Ignition Temperature Above 250 Deg C. Initial Boiling Point 160 C To 600 C. Kinematic Viscosity (Cst) : Residual Fuel 30 – 700; Distillates: 1.4 cSt to 14.0 Cst. Vapour Pressure 210 Pa At 25°C; Vapour Density (Air = 1) >5; Non Volatile Solubility (In Water) 6 To 1400 Mg/L At 25°C; Ph – Not Applicable
10	Stability/Reactivity	Chemical Stability: Stable under normal conditions. Keep away from strong acids and bases.
11	Toxicological Information	SKIN CONTACT: Prolonged or repeated contact may dry and defeat the skin, leading to irritation and possibly dermatitis.
12	Ecological Information	In the absence of specific environmental data for this product, this assessment is based on information for general hydrocarbon components found in residual fuels. Residual fuels, immediately following a release into the environment, will remain largely on the soil surface, and in water, will distribute largely between the water and sediment surfaces. This product is expected to be resistant to biodegradation and to persist in the environment.
13	Disposal Considerations	This product contains hazardous ingredients listed in Section 2. Collect and dispose of it at an authorised disposal facility, in conformance with national and local regulations, and in accordance with directives on hazardous waste.
14	Transport Information	IATA/IMDG/ICAO: <u>NOT REGARDED AS HAZARDOUS MATERIAL FOR TRANSPORTATION.</u> NOT RESTRICTED AS PER IATA S.P. A3 as FLASH POINT IS ABOVE 60.5 DEGREES C.
15	Regulatory Information	Tankers, Rail Cars, Tank Trucks, Drums. Do not use galvanised steel, zinc/lead or zinc/copper alloys or natural rubber tank material. Combustible material low hazard. The product can form flammable mixtures or can burn only on heating above the Flash Point.
16	Other Information	This document is intended as a generic MSDS for the transportation of small samples for laboratory testing and not intended as an MSDS for commercial shipment s. The information is gathered from MSDS and Information of manufacturers of such products. We accept no liability for the use of this MSDS and it is the user's responsibility to satisfy himself as to the suitability and completeness of the information for his purpose.