



10/01/2024

*MATERIAL SAFETY DATA SHEET FOR MAGMATIC – MM2 MPI CARRIER OIL*

***SAFETY DATA SHEET***

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***1. IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY UNDERTAKING***

***Product Name: MAGMATIC –MM2***

***Code: MM2***

***Application: MAGNETIC PARTICLE INSPECTION CARRIER OIL***

***Company: Magmatic NDT Systems Pvt Ltd***

***Address: No. 53, 4<sup>th</sup> Cross, 2<sup>nd</sup> Mian Road, Lal Bahadur shastri Nagar, Anjanapura Extension ,10<sup>th</sup> Block, Bangalore – 560108***

***Website: [www.magneticndt.in](http://www.magneticndt.in)***

***Email :[magneticndt@gmail.com](mailto:magneticndt@gmail.com)***

***2. COMPOSITION/INFORMATION ON INGREDIENTS.***

***A hydrocarbon blend de-aromatized by catalytic hydrogenation.***

***Hydrocarbon CAS No 64742-47-8 EC No. 265-149-8 more than 90%.***

***Not hazardous as defined in 29 CFR 1910.1200***

***3. HAZARDS IDENTIFICATION***

***Harmful: may cause lung damage if swallowed (Aspiration hazard)***

***Material can form flammable mixtures or can burn only on heating to temperatures at or above the flash point.***

***4. FIRST AID MEASURES***

***Professional assistance from physician required? Yes if significant quantities ingested or person overcome by inhaling vapours. Summary of first aid is as follows:***

***Inhalation: Immediately remove from exposure. If person is overcome by fumes obtain EMERGENCY MEDICAL ATTENTION. Give artificial respiration if required.***

***Skin Contact: Remove contaminated clothing. Wash skin thoroughly with mild soap and water. Flush skin with lukewarm water. Eye contact: Immediately rinse with clean water for 15 minutes while holding eyes open. Obtain medical attention if irritation persists. Ingestion: If significant quantities are ingested obtain medical attention. Give lukewarm water if completely conscious but do not induce vomiting, the risk of damage to the lungs if aspirated, exceeds the poisoning risk.***



#### **5. FIRE FIGHTING MEASURES**

*Suitable Extinguishing Media: Sand, Foam, Dry Powder or Carbon Dioxide.*

*Unsuitable Extinguishing Media: Water Jet.*

*Special Exposure Hazards: Carbon monoxide. Heat may rupture closed containers. Use water spray/fog to cool.*

*Special Protective Equipment: Self-contained breathing apparatus if fire is in a confined space.*

#### **6. ACCIDENTAL RELEASE MEASURES**

*Personal Precautions: Extinguish or turn off all sources of ignition, obtain protective Respirator, gloves, goggles or face mask.*

*Environmental Precautions: Stop release. Contain spill with suitable boom, sand or absorbent granules. Prevent escape to drains or sewers. Report any escape into Drains to fire and water authorities.*

*Decontamination Procedures: Contained large spills may be pumped (hand or explosive proof electric) into suitable containers for recovery or disposal. Small spills may be absorbed using suitable granules.*

#### **7. HANDLING AND STORAGE**

*Handling: Minimise skin contact by use of Nitrile or similar impervious gloves. Wear chemical goggles or other similar eye protection. Open containers with care.*

*Storage: Store in sealed containers in ventilated covered storage areas*

#### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

*Take measures to prevent*

*1. Contact with eyes and skin.*

*2. Inhalation risk from vapour build-up.*

*Exposure Control Limits and Source:*

*Ensure good ventilation. Absorbent masks or respirators will be required if spray or vapour build up occurs.*

*Hand Protection: Wear Nitrile or similar impervious gloves.*

*Skin Protection: Long sleeved overalls are recommended also impervious aprons and gauntlets if there is a risk of frequent splashing.*

*Eye Protection: Wear safety glasses with side shields, chemical goggles or similar eye protection.*

#### **9. PHYSICAL AND CHEMICAL PROPERTIES**

*Appearance: Colourless mobile liquid.*

*Odour: Mild hydrocarbon odour.*

*Relative Density: 0.820*

*Flash Point: Above 93°C*



*Viscosity (25°C) 3.6 cst*

*Autoflammability, Above 200°C*

*Solubility, Insoluble in water*

#### **10. STABILITY AND REACTIVITY**

*Stability: Fluid is stable.*

*Conditions to Avoid: Sources of ignition and temperatures above 60°C.*

*Materials to Avoid: Strong Oxidising Agents. May swell rubbers and organic coatings.*

#### **11. TOXICOLOGICAL INFORMATION**

*Fluid is a catalytically hydro-de-aromatised hydrocarbon with an aromatic content less than 0.7% and benzene content less than 100ppm (typical values).*

*Eye Contact: May be slightly irritating but no reported injury.*

*Skin Contact: Frequent or prolonged contact may irritate, cause skin dryness or aggravate an existing dermatitis condition.*

*Ingestion: Suppliers Data indicates no significant hazard by this oil.*

*Small amounts of liquid aspirated into the respiratory system during ingestion or from Vomiting may cause bronchopneumonia or pulmonary edema which could be fatal.*

*Inhalation: Vapour concentrations above recommended exposure levels may be irritating to the eyes and respiratory tract and may cause headaches and dizziness or drowsiness.*

#### **12. ECOLOGICAL INFORMATION**

*Environmental Mobility: Liquid has low solubility in water, floats and can migrate to the land.*

*The liquid has a potential to partition to the sediment and to bioconcentrate.*

*Ecotoxicity: No acute toxicity to aquatic organisms is expected at the maximum water solubility of this material. Long term adverse effects to aquatic organisms are not expected.*

#### **13. DISPOSAL CONSIDERATIONS**

*Ensure conformity to local disposal regulations.*

*Likely Residues or Waste Products: Product with dissolved contaminants.*

*Safe Handling: combustible liquid, preferred disposal by incineration in suitable licensed facility.*

#### **14. TRANSPORT INFORMATION**

*Hazard Classification: Not hazardous/Not regulated.*



## **15. REGULATORY INFORMATION**

*Supply label information:*

*Product is classified Harmful*

*This product has been classified in accordance with the hazard criteria of the "Controlled Products Regulations" and the MSDS contains all the information required by the "Controlled Products Regulations".*

## **16. OTHER INFORMATION**

*Recommended uses and restrictions:*

*Fluid carrier for the preparation of magnetic particle inspection carrier oil, the agitated suspension to be flowed over the magnetised work piece and inspected under appropriate light. Defects cause concentration(s) of the magnetic particles.*

*Sources of Key data used to compile Safety Data Sheet:*

*Raw material suppliers Material Safety Data sheets.*

*Internal testing procedure.*

*The information in this MSDS based on the present state of our knowledge and on current EC and National Laws, as users' working conditions are beyond our knowledge and control. The product is not to be used for purposes other than those specified without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps in order to fulfill the demands laid down in local rules and legislation. The information in this MSDS is meant as a description of the safety requirements of our product.*

*However, although prepared with all due care, Magmatic NDT Systems provides no warranties, either expressed or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein. Magmatic NDT Systems assumes no responsibility for any injury to vendor, end user or third party and it is the sole responsibility of the user to determine its suitability for any purpose. It is not to be considered as a guarantee of the products properties.*

*Hazardous Materials Information System for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided.*

*Please ensure that it is passed to the appropriate person(s) in your company, who are capable of acting on the information*