



Material Safety Data Sheet

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SECTION 1 PRODUCT AND COMPANY INFORMATION

Trade Name: Nickel Magnetic Beads
Catalogue Number(s): LSKMAGH10, LSKMAGH02
Chemical Name: A suspension of nickel magnetic beads 1 volume % benzyl alcohol
Other trade names and synonyms: none
Manufacturer/Distributor: Millipore Corporation (Corporate Headquarters) Millipore S.A.S. (European Headquarters)
Postal Address: 290 Concord Road Billerica MA, USA Boite Postale 116 67124 Molsheim Cedex, France
Telephone Number: +1-978-715-1335 +33(0)3 90 46 90 00
Email: msds@millipore.com
CHEMTREC Emergency Telephone Number: International +1-703-527-3887 (collect) North America 1-800-424-9300 (toll free)

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

Component	EINECS or ELINCS No.	CAS No.	Content (weight percent)	Symbol letters*	R Phrases**
Proprietary magnetic beads with nickel chelate covalently bound to silica	Not Applicable	Not Applicable	70 – 75 %	Not Applicable	Not Applicable
Benzyl alcohol	202-859-9	100-51-6	03. – 0.5 %	Not Applicable	Not Applicable
Water	231-791-2	7732-18-5	20 – 30 %	Not Applicable	Not Applicable

* Symbol letters and categories of danger: **T+** = Very toxic, **T** = Toxic, **C** = Corrosive, **Xn** = Harmful, **Xi** = Irritant, **E** = Explosive, **F+** = Extremely flammable, **F** = Very flammable, **N** = Dangerous for the environment, **O** = Oxidising.

** The full text of each phrase is listed in Section 16.

SECTION 3 HAZARD IDENTIFICATION / EMERGENCY OVERVIEW

Appearance: Brown slurry

Classification: unclassified.

Adverse human health effects

Contact with Eyes: May cause eye irritation. Severe contact with the eyes may cause physical damage to the eyes

Ingestion: May cause irritation of gastro-intestinal tract.

Inhalation (Short Term): Inhalation of dried slurry may cause severe respiratory irritation associated with high silica glass particles

Inhalation (Long Term): No Information has been found.

Skin Contact: May cause skin irritation. Severe contact with the skin may cause drying of the skin.

Target Organs: Low risk of silicosis (lungs) unless exposure is prolonged or repeated.

Medical conditions aggravated by exposure: No Information has been found.

Adverse environmental effects: No Information has been found.

Adverse physiochemical effects: No Information has been found.

SECTION 4 FIRST AID MEASURES

Contact with Eyes: Flush eyes with plenty of water for at least 15 minutes; occasionally lifting upper and lower lids. Seek medical attention if irritation persists.

Ingestion: If victim is conscious and alert, give plenty of water. If unconscious, give nothing by mouth and seek medical attention for victim.

Inhalation: Remove exposed person to fresh air immediately. If breathing is difficult, administer oxygen. If victim is not breathing, administer artificial respiration. Get medical attention.

Skin Contact: Wash exposed skin with soap and water while removing contaminated clothing and shoes. Seek medical attention if irritation develops or persists. Launder contaminated clothing before wearing.

SECTION 5 FIRE FIGHTING MEASURES

Flash Ignition Temperature: Product is non-combustible; no special measures are required.

Autoignition Temperature (ASTM D1929): Product is non-combustible; no special measures are required.

Suitable extinguishing media: Product is non-combustible; no special measures are required.

Unsuitable extinguishing media: Product is non-combustible; no special measures are required.

Special protective equipment for firefighters: Product is non-combustible; no special measures are required.

Special exposure hazards: Product is non-combustible; no special measures are required.

SECTION 6 ACCIDENTAL RELEASE

Personal precautions:

Small spills: Wear gloves, goggles and other protective clothing, including dust mask if the product is dry.

Large spills: Wear gloves, goggles and other protective clothing, including dust mask if the product is dry.

Environmental precautions: No data is available

Clean up measures: Wipe up and collect in container for disposal Wash area with dilute bleach solution, followed by detergent and water.

SECTION 7 HANDLING AND STORAGE

Handling: Wear safety glasses or goggles, and gloves. Take precautions to avoid spillage. Wash hands thoroughly after use.

Storage: Do not freeze.

SECTION 8 EXPOSURE CONTROL AND PERSONAL PROTECTION

	Normal Handling Conditions	Emergency Response Conditions
Respiratory protection:	Respiratory protection is not required under normal conditions of use.	If respiratory protection is deemed necessary, follow OSHA respirator regulations in 29 CFR 1910.134 (or local equivalent) Use a NIOSH-approved dust/mist mask (or local equivalent).
Ventilation:	Under ordinary conditions of use, local exhaust should not be required.	If processing technique is such that glass dust is generated use local exhaust to control exposure below applicable exposure limits.
Eye protection:	Wear safety glasses or goggles	Wear safety glasses or goggles
Skin protection:	Wear appropriate protective clothing and gloves to prevent skin contact under conditions of use.	Wear appropriate protective clothing and gloves to prevent skin contact under conditions of use.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brown powder suspended in clear aqueous solution.

Odor: None

Odor Threshold: Not available

pH: Not available

Melting Point: Not available

Boiling Point: Not available

Flash Ignition Point:	Not available
Explosive Properties:	Not available
Oxidizing Properties:	Not available
Vapor pressure, 20 °C:	Not available
Solubility:	Silica beads, insoluble
Specific Gravity (Water = 1.0):	Not available
Vapor Density, 20 °C:	Not available
Viscosity, centipoise:	Not available
Partition coefficient (n-octanol/water):	Not available

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability:	Stable and non-combustible.
Incompatible With:	Strong oxidizers, strong acids and bases.
Hazardous Decomposition Products:	Oxides and other compounds of carbon, and nitrogen. Traces of nickel oxide fumes.
Conditions to Avoid:	Strongly alkali (greater than pH 9) or acidic (less than pH 1) solutions.
Hazardous Polymerization:	Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Inhalation:	Possible respiratory tract irritation.
Ingestion:	Possible gastrointestinal tract irritation.
Skin Contact:	Possible skin, irritation.
Eye Contact:	Possible eye irritation.
Carcinogenicity:	Not listed as carcinogenic by IARC, NIOSH, NTP, or OSHA.
Chronic Toxicity:	No Information available.
Toxicology Data:	

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:	No data is available on the Ecotoxicity of Nickel Magnetic Beads.
Environmental Fate:	No data is available on the Environmental Fate of Nickel Magnetic Beads.

SECTION 13 DISPOSAL INFORMATION

European Union: When disposal is required, this product should be considered according to the European Waste catalogue (European commission decision of 03/05/01 modifying directives 94/3/CE and 75/442/CE) as part of the following category:

Other than Pharmaceutical MSFU	20 01 39 separately collected fractions, plastics
Pharmaceutical MSFU with residual dangerous substances	07 05 13* solid wastes containing dangerous substances
Pharmaceutical MSFU without residual dangerous substances	07 05 14 solid wastes other than those mentioned in 07 05 13

United States: The components of this product are not listed as RCRA hazardous wastes. Wastes containing this product should be disposed of in a manner consistent with federal, state and local regulations.

SECTION 14 TRANSPORTATION INFORMATION

This product is not currently regulated by USDOT, ICAO/IATA, ADR or IMO as hazardous materials or dangerous goods.

Note: No special transport requirements are applicable, other than storage between 2-8oC should delays occur.

SECTION 15 REGULATORY INFORMATION

Australia	Hazchem Code:	Not applicable
	Poisons Schedule Number:	Not applicable
California	No Significant Risk Level:	None of the chemicals in this product are known to Millipore Corporation to be listed.
Canada	WHMIS:	Unclassified.
European Union	Symbols:	Not applicable
	Category of danger:	Not applicable
	Risk phrases:	Not applicable
	Safety phrases:	Not applicable
	OECD/High Production Volume (HPV) chemicals:	Not applicable
	WEEE:	Not applicable
	RoHS:	Not applicable
Japan	Poisonous and Deleterious Substances Control Law:	Not applicable
United Kingdom	Control of Substances Hazardous to Health Regulations 2002 (COSHH) Rating:	Not applicable

United States Toxic Substances Control Act (TSCA): Nickel Magnetic Beads is not listed on the Toxic Substances Control Act (TSCA) Chemical Inventory. In the United States, their use is restricted to research and development or FDA regulated activities. See regulations in 40 CFR 710 for details.

Occupational Exposure

Limits	Component	OSHA PEL	NIOSH REL	ACGIH TLV
	Nickel chelate covalently bound to porous glass	None established	None established	None established
	Glass dust, high silica, amorphous	1	6	0.1 (fused silica)
	Benzyl Alcohol	None established	None established	None established

SECTION 16 ADDITIONAL INFORMATION**Abbreviations Used**

ACGIH	American Conference of Government Industrial Hygienists
ADR	European agreement on the international carriage of dangerous goods on road
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EPA	United States Environmental Protection Agency
IARC	International Agency for Research in Cancer.
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	Regulations regarding the transportation of dangerous goods on ocean-going vessels issued by the International Maritime Organization.
LC ₅₀	Lethal Concentration 50% is the concentration of a chemical which kills 50% of a sample population
LD ₅₀	Lethal Dose 50% is the dose of a chemical which kills 50% of a sample population.
LDLo	Lowest observed lethal dose
MSFU	Manufacture, Formulation, Supply and Use (Section 13)
NIOSH	National Institute of Occupational Safety and Health (US)
NTP	National Toxicology Program (US)
OSHA	United States Occupational Safety and Health Administration
RID	International regulations concerning the international carriage of dangerous goods by rail.
RTECS	Registry of Toxic Effects of Chemical Substances (US)
WHMIS	Workplace Hazardous Materials Information System (Canada)

This safety data sheet has been prepared to comply with the requirements of European Union Directive 2001/58/EC and ANSI Z400.1-1998.

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