

SAFETY DATA SHEET

1. Identification

Product identifier	Magnosphere MS160/Streptavidin	
Product code	J-MS-S160S	
Recommended use	Industrial products	
Recommended restrictions	None known.	
Manufacturer / Importer / Supplier / Distributor information		
Supplier	MBL International Corporation	
	15A Constitution Way, Woburn, MA 01801, USA	
Telephone number	+1-800-200-5459, option 3	
Fax	+1-781-939-6963	
E-mail	tech@mblintl.com	
URL	http://www.mblintl.com/	

Technical Service

2. Hazard(s) identification

Contact person

Physical hazards	Not classified.
Health hazards	Not classified.
OSHA hazard(s)	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	None.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise	None.
classified (HNOC)	
Supplemental information	None.

3. Composition/Information on ingredients

Mixtures

in the observed of the observe			
Chemical name	CAS number	%	
Iron oxide	1309-38-2	<1	
Sodium azide	26628-22-8	< 0.1	

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures	
Inhalation	Move to fresh air. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops or persists.
Eye contact	Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation develops or persists.
Ingestion	Rinse mouth thoroughly. Get medical attention if any discomfort occurs.
Most important symptoms/ effects, acute and delayed	Dry skin.

Indication of immediate medical attention and special treatment needed	Treat symptomatically.	
General information	Get medical attention if any discomfort develops.	
5. Fire-fighting measure	S	
Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.	
Unsuitable extinguishing media	None known.	
Specific hazards arising from the chemical	None known.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.	
Fire-fighting equipment/ instructions	Move containers from fire area if you can do it without risk. Use water spray to cool unopened containers. Prevent entry to sewers and public waters.	
General fire hazards	The product is non-combustible.	

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Avoid inhalation of mist and contact with skin and eyes. For personal protection, see Section 8 of the SDS.
Methods and materials for containment and cleaning up Environmental precautions	Absorb spillage with suitable absorbent material. After removal, flush contaminated area thoroughly with water. For waste disposal, see Section 13 of the SDS. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling Avoid contact with eyes and prolonged skin contact. Wash hands after handling. Observe good industrial hygiene practices.

Conditions for safe storage, Keep container tightly closed. Store away from incompatible materials. **including any incompatibilities**

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components		Туре	Value
Sodium azide (CAS 2662	8-22-8)	Ceiling	0.29 mg/m3
			0.11 ppm
US NIOSH Pocket Guid	e to Chemical H	azards: Ceiling Limit	Value and Time Period (if specified)
Components		Туре	Value
Sodium azide (CAS 2662	8-22-8)	Ceiling	0.3 mg/m3
			0.1 ppm
propriate engineering htrols	Provide adeq	uate ventilation. Provid	e easy access to water supply and eye wash facilities.
ividual protection measu	res, such as pe	rsonal protective equ	ipment
Eye/face protection Skin protection	Risk of splasł	nes: Wear safety glass	es with side shields.
Hand protection Wear protective gloves. Be aware that the liquid may penetrate the gloves. Freque is advisable. Suitable gloves can be recommended by the glove supplier.			
Other	Wear approp	iate clothing to preven	t repeated or prolonged skin contact.
Respiratory protection	No special pr	ecautions. Seek advice	e from local supervisor.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Suspension.
Color	Brown
Odor	Odorless.
Odor threshold	Not available.
рН	6.8 - 7.6
Melting point/freezing point	Not available.
Initial boiling point and	Not available.
boiling range	
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or e	explosive limits
Flammability limit	Not available.
- lower (%)	
Flammability limit	Not available.
- upper (%)	
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Soluble in water.
Partition coefficient	Not available.
(<i>n</i> -octanol/water)	
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Reactivity Chemical stability	The product is stable and non reactive under normal conditions of use, storage and Stable at normal conditions.
Possibility of hazardous reactions	Sodium azide: Reacts with copper, lead, silver, mercury and carbon disulfide to form particularly shock-sensitive compounds. Reacts with acids, forming toxic and explosive hydrogen azide.
Conditions to avoid	None known.
Incompatible materials	Heavy metals. Acids.
Hazardous decomposition products	None known.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Large quantities: May cause discomfort if swallowed.
Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	Direct contact with eyes may cause temporary irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Dry skin.
Information on toxicological e	ffects
Acute toxicity	Large quantities: May cause discomfort if swallowed.
Skin corrosion/irritation	May cause mild skin irritation.

May cause eye irritation.		
Based on available data, the classification	Based on available data, the classification criteria are not met.	
Based on available data, the classification	criteria are not met.	
No data available.		
all Evaluation of Carcinogenicity	Not listed.	
ens	Not listed.	
lated Substances (29 CFR 1910.1001-1050)	Not listed.	
No data available.		
No data available.		
No data available.		
Based on available data, the classification	criteria are not met.	
Prolonged inhalation may be harmful.		
	Based on available data, the classification Based on available data, the classification No data available. all Evaluation of Carcinogenicity ens lated Substances (29 CFR 1910.1001-1050) No data available. No data available. No data available. Based on available data, the classification	

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills have a harmful or damaging effect on the environment.
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Mobility in general	The product is water soluble and may spread in water systems.
Other adverse effects	The environmental hazard of the product is considered to be limited.

13. Disposal considerations

Disposal instructions	Dispose of in accordance with all applicable regulations. Do not discharge into drains, water courses or onto the ground.
Local disposal regulations	Dispose of in accordance with local regulations.
Hazardous waste code	Not regulated.
Waste from residues / unused	Dispose of in accordance with local regulations.
products	
Contaminated packaging	Dispose of in same manner as unused product.

14. Transport information

DOT	Not regulated as dangerous goods.
ΙΑΤΑ	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Transport in bulk according	Not applicable.
to Annex II of MARPOL 73/78	
and the IBC Code	

15. Regulatory information

US federal regulations

This product is not hazardous according to OSHA 29CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
CERCLA Hazardous Substance List (40 CFR 302.4)

Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Not regulated. Not listed. Not listed.

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely haz	No		
SARA 311/312 Hazardous chemical		No	
SARA 313 (TRI reporting)		Not regulated.	
Other federal regulations			
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulate			
Clean Air Act (CAA) Section 112 (r) Accidental Release Prevention (40 CFR 68.130)		Not regulated.	
Safe Drinking Water Act (SDWA)		Not regulated.	
		Not regulated.	
Food and Drug Administration (FDA) N		Not regulated.	
US state regulations	This product does not contain a chemical known to the State of birth defects or other reproductive harm.	California to caus	e cancer,
Massachusetts RTK - Substance List Not		Not listed.	
New Jersey Worker and Community Right-to-Know Act		Not listed.	
		Not listed.	
•		Not listed.	
California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT) Not lis		Not listed.	
International Inventories			
Country(s) or region	Inventory name	On inventory (ves/no)*
Australia	Australian Inventory of Chemical Substances (AICS)		Yes
Canada	Domestic Substances List (DSL)		Yes
Canada	Non-Domestic Substances List (NDSL)		No
China	Inventory of Existing Chemical Substances in China (IECSC)		Yes
Europe	EC Inventory		Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)		Yes
Korea	Existing Chemicals List (ECL)		Yes
New Zealand	New Zealand Inventory		Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (F		Yes
United States & Puerto	Toxic Substances Control Act (TSCA) Inventory	1000)	Yes
Rico	TONIC Substances Control Act (TSCA) Inventory		165
NICO			

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date	01/06/2020
Revision date	-
Version	10
Further information	Not available.
References	Registry of Toxic Effects of Chemical Substances (RTECS) HSDB® - Hazardous Substances Data Bank
Disclaimer	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.