Magnosphere MS160/Tosyl Issued: 01/06/2020, 1/5



SAFETY DATA SHEET

1. Identification

Product identifier Magnosphere MS160/Tosyl

Product code J-MS-S160T
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/

Contact person Technical Service

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
OSHA hazard(s) Not classified.

Label elements

Hazard symbolNone.Signal wordNone.Hazard statementNone.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

None.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

3. Composition/Information on ingredients

Mixtures

Chemical name	CAS number	%	
Iron oxide	1309-38-2	<1	
2-Methyl-4-isothiazolin-3-one	2682-20-4	< 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 Under normal conditions of intended use, this material is not expected to be an inhalation

hazard.

Skin contact Remove contaminated clothing. Dry skin with paper towel or similar. 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 Drink plenty of water. Get medical attention if any discomfort occurs.

Most important symptoms/ effects, acute and delayed

May cause irritation on skin or eye contact.

Magnosphere MS160/Tosyl Issued: 01/06/2020, 2/5

Indication of immediate

medical attention and special

treatment needed

General information Get medical attention if any discomfort develops.

Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media

None known.

Specific hazards arising from None known.

the chemical

Special protective equipment Self-contained breathing apparatus, operated in positive pressure mode and full protective

and precautions for firefighters

clothing must be worn in case of fire.

Fire-fighting

Move containers from fire area if you can do that without risk. Use water spray to cool

equipment/instructions

unopened containers. Prevent entry to sewers and pubic waters.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and prolonged skin contact. For personal protection, see Section 8

of the SDS.

Methods and materials for containment and cleaning up

Absorb spillage with suitable absorbent material. After removal, flush contaminated area

thoroughly with water.

Environmental precautions 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,

including any incompatibilities Keep container tightly closed.

8. Exposure controls/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

No exposure standards allocated. **Exposure guidelines** Ventilation is not normally required. Appropriate engineering

controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Risk of splashes: Wear safety glasses with side shields.

Skin protection

Risk of contact: Wear protective gloves. Nitrile or neoprene gloves are recommended. Hand protection

Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

Other Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory protection Thermal hazards

No special precautions. Seek advice from local supervisor. 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. Suspension **Form** Color Brown Odorless. Odor **Odor threshold** Not available. Magnosphere MS160/Tosyl Issued: 01/06/2020, 3/5

pH 6.8 - 7.6

Melting point/freezing point Not available.

Initial boiling point and ca. 100°C (Water)

boiling range

Flash point Not applicable.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit Not applicable.

lower (9/)

- lower (%)

Flammability limit

Not applicable.

- upper (%)

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.Solubility(ies)Not available.Partition coefficientNot available.

(*n*-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

10. Stability and reactivity

Reactivity The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability Stable at normal conditions.

Possibility of hazardous

reactions

 $\label{thm:local_equation} \mbox{Hazardous polymerization does not occur. Hazardous reactions do not occur.}$

Conditions to avoid Contact with incompatible materials. Elevated temperatures.

Incompatible materials Strong acid, strong basic substance and electrolyte solution.

Hazardous decomposition

products

None known.

11. Toxicological information

Information on likely routes of exposure

Ingestion 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 May cause eye irritation on direct contact.

Symptoms related to the May cause irritation on skin or eye contact.

physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity

Components		Species	Test results	
2-Methyl-4-isothia	azolin-3-one (CAS 2682-	20-4)		
Acute				
Oral	LD50	Rat	>5 000 mg/kg	

Oral Ebbo Nat 10,000 mg/kg

Skin corrosion/irritation

May cause mild skin irritation.

Serious eye damage/eye

May cause eye irritation on direct contact.

irritation

Respiratory sensitization No data available.

Skin sensitization May cause sensitization by skin contact.

Germ cell mutagenicity No data available.

Carcinogenicity This product is not considered to be a carcinogen by IARC.

Magnosphere MS160/Tosyl Issued: 01/06/2020, 4/5

Reproductive toxicity No data available.

Specific target organ toxicity Not classified.

- single exposure

Specific target organ toxicity Not classified.

- repeated exposure

Aspiration hazard Not classified.

12. Ecological information

Ecotoxicity The product contains a substance which is toxic to aquatic organisms and which may cause

long-term adverse effects in the aquatic environment.

 Components
 Species
 Test Results

 2-Methyl-4-isothiazolin-3-one (CAS 2682-20-4)

 Aquatic

 Crustacea
 LC50
 Calanoid copepod (Acartia clausi)
 0.056 mg/L, 48 hours

 Fish
 LC50
 Rainbow trout (Oncorhynchus mykiss)
 0.07 mg/L, 96 hours

Persistence and degradability No data available.

Bioaccumulative potential No data available.

Mobility in soil Expected to be highly mobile in soil.

Mobility in generalThe product is water soluble and may spread in water systems.Other adverse effectsThe 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

DOTNot regulated as dangerous goods.IATANot regulated as dangerous goods.IMDGNot 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)

Not listed.

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No Delayed Hazard - No

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

SARA 302 Extremely hazardous substance No SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

US state regulations This product does not contain a chemical known to the State of California to cause cancer,

birth defects or other reproductive harm.

Magnosphere MS160/Tosyl Issued: 01/06/2020, 5/5

Massachusetts RTK - Substance ListNot regulated.New Jersey Worker and Community Right-to-Know ActNot regulated.Pennsylvania RTK - Hazardous SubstancesNot regulated.Rhode Island RTKNot regulated.California Proposition 65Not listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/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
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PIC	CS) Yes
United States & Puerto	Toxic Substances Control Act (TSCA) Inventory	Yes

Rico

16. Other information

Issue date 01/06/2020

Revision date -Version 10

List of abbreviations EC50: Effective Concentration, 50%.

LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%.

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.

^{*}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).