

# SAFETY DATA SHEET

### 1. Identification

**Product identifier** 

Histostar (Rat) for Mouse tissue

Other means of identification				
Product code	8463,8463A			
Recommended use	Research use only.			
Recommended restrictions None known.				
Manufacturer / Importer / Sup	plier / Distributor information			
Manufacturer and	Medical & Biological Laboratories (MBL) Co., Ltd.			
Supplier (Asia)	4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, Japan			
Telephone number	+81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)			
Fax	+81-52-238-1440			
E-mail	sds-support@mbl.co.jp			
URL	http://www.mbl.co.jp/e/index.html			
Contact person	SDS Support			
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

Not classified.
Not classified.
Not classified.
None.
None.
None.
Observe good industrial hygiene practices.
Wash hands after handling.
Store away from incompatible materials.
Dispose of waste and residues in accordance with local authority requirements.
None.

#### 3. Composition/Information on ingredients

Chemical name		CAS number	%
2-Methyl-4-isothiazolin-3	3-one	2682-20-4	< 0.01
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 contamin irritation develops	• •	in with paper towel or similar. Get medical attention i

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.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Get medical attention if any discomfort develops.

## 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials. 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 that without risk. Use water spray to cool 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 Environmental precautions	Absorb spillage with suitable absorbent material. After removal, flush contaminated area thoroughly with water. 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.
including any	
incompatibilities	

## 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).		
Exposure guidelines	No exposure standards allocated.		
Appropriate engineering	Ventilation is not normally required.		
controls			
Individual protection measure	s, such as personal protective equipment		
Eye/face protection	Risk of splashes: Wear safety glasses with side shields.		
Skin protection			
Hand protection	Risk of contact: Wear protective gloves. Nitrile or neoprene gloves are recommended.		
	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	No special precautions. Seek advice from local supervisor.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
General hygiene	Handle in accordance with good industrial hygiene and safety practice. Wash hands after		
considerations	handling. Routinely wash work clothing and protective equipment to remove contaminants.		

## 9. Physical and chemical properties

Liquid.

#### Appearance

Physical state

Form	Liquid.
Color	Yellow.
Odor	Odorless.
Odor threshold	Not available.
рН	Neutral.
Melting point/freezing point	Not available.
Initial boiling point and	Not available.
boiling range	
Flash point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or e	xplosive limits
Flammability limit	Not applicable.
- lower (%)	
Flammability limit	Not applicable.
- upper (%)	
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Soluble in water.
Partition coefficient	Not 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	Hazardous polymerization does not occur. Hazardous reactions do not occur.
reactions	
Conditions to avoid	Contact with incompatible materials. Elevated temperatures.
Incompatible materials	Strong acid, strong basic substance and electrolyte solution.
Hazardous decomposition	None known.
products	

# 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 physical, chemical and toxicological characteristics	May cause irritation on skin or eye contact.			
Information on toxicological	effects			

## Acute toxicity

Components		Species	Test results	
2-Methyl-4-isothiazolin-3-one (CAS 2682-20-4)				
Acute				
Oral	LD50	Rat	53 mg/kg	
Skin corrosion/irritation	May cause mild skin irritation.			
Serious eye damage/eye irritation	May cause eye irritation on direct contact.			
Respiratory sensitization	No data available	э.		

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

Not regulated.

No

No

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.
Reproductive toxicity	No data available.
Specific target organ toxicity	Not classified.
- single exposure	
Specific target organ toxicity	Not classified.
<ul> <li>repeated exposure</li> </ul>	
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-o	ne (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 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 considerati	ons			
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 accor	dance with local regulations.		
Hazardous waste code	Not regulated.			
Waste from residues / unused products	Dispose of in accord	dance with local regulations.		
Contaminated packaging	Dispose of in same manner as unused product.			
14. Transport informatio	on			
DOT	Not regulated as da	Not regulated as dangerous goods.		
ΙΑΤΑ	-	Not regulated as dangerous goods.		
IMDG	Not regulated as da	angerous goods.		
Transport in bulk according	Not applicable.			
to Annex II of MARPOL 73/78 and the IBC Code				
15. Regulatory informati	on			
US federal regulations		hazardous according to OSHA 29CFR 1910 on the U.S. EPA TSCA Inventory List.	0.1200.	
TSCA Section 12(b) Expo	ort Notification (40 C	FR 707, Subpt. D)	Not regulated.	
OSHA Specifically Regul	ated Substances (29	9 CFR 1910.1001-1050)	Not listed.	
CERCLA Hazardous Sub	stance List (40 CFR	302.4)	Not listed.	
Superfund Amendments and	Reauthorization Act	t of 1986 (SARA)		
Hazard categories			Immediate Hazard - No Delayed Hazard - No	

SARA 302 Extremely hazardous substance SARA 311/312 Hazardous chemical SARA 313 (TRI reporting)

US state regulations	ate of California to cause cancer,				
Massachusetts RTK - Substance List New Jersey Worker and Community Right-to-Know Act Pennsylvania RTK - Hazardous Substances Rhode Island RTK California Proposition 65		Not regulated. Not regulated. Not regulated. Not regulated. Not listed.			
			International Inventories		
			Country(s) or region	Inventory name	On inventory (yes/no)*
			Australia	Australian Inventory of Chemical Substances (AICS)	Yes

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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 (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*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	01/30/2016
Revision date	09/30/2016
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.