

SAFETY DATA SHEET

VD2020032 MS#-HT1

Issuing Date 07-Nov-2018

Revision Date 18-May-2020

Revision A

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<u>Product identifier</u> Product Name	MS#-HT1, 5 mL		
Other means of identification Product Codes(s)	15027041		
Synomyms	None		
Recommended use of the chemic	al and restrictions on use		
Recommended Use	reagent		
Details of the supplier of the safet Manufacturer Address Illumina, Inc. 5200 Illumina Way San Diego, CA 92122 USA www.illumina.com	ty data sheet Company Phone Number 1-858-809-ILMN 1-858-202-4566	E-mail address SDS@illumina.com	
Emergency telephone number 24 Hour Emergency Phone Number	1-760-476-3962		
	2. HAZARDS IDENTIFIC	ATION	
GHS Classification			
OSHA Regulatory Status This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).			
	re according to the Globally Harmonized S	ystem (GHS).	
Label elements Emergency Overview			
Signal word None Hazard statements Not Hazardous	which at their given concentration are con	nsidered to be hazardous to health.	
Appearance Colorless liquid	Physical state Liqui	id Odor Odorless	
Precautionary Statements – Preve Handle in accordance with good ind Precautionary Statements – Stora Store away from incompatible mater	ustrial hygiene and safety practice. ge		
Precautionary Statements – Dispo			
Dianaga of in accordance with foder	al atota and local regulations		

Dispose of in accordance with federal, state and local regulations.

Hazards not otherwise classified (HNOC)

Not applicable.

Other Information

Unknown acute toxicity 7.5 % of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration are considered to be hazardous to health.

4. FIRST AID MEASURES

Description of first aid measures

General Advice	Use first aid treatment according to the nature of the injury.	
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.	
Skin Contact	Wash skin with soap and water. Get medical attention if irritation develops and persists.	
Inhalation	If symptomatic, move to fresh air. Get medical attention if symptoms persist.	
Ingestion	Get medical advice/attention.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water, Water spray (fog), Foam, Dry chemical, Carbon dioxide (CO2).

Unsuitable extinguishing media

None known.

Specific hazards arising from the chemical

None known.

Hazardous combustion products

No information available.

Explosion data

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required.

For emergency responders

Use personal protection recommended in Section 8. Keep unnecessary personnel away.

Environmental precautions		
Environmental precautions	See Section 12 for additional Ecological Information.	
Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later disposal.	
Methods for cleaning up	Use personal protective equipment as required. Contain and collect spillage with non- combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).	
	Large spill. Prevent runoff from entering drains, sewers, or streams. Dike far ahead of liquid spill for later disposal.	
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Keep/store only in original container. Store away from incompatible materials.	
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Incompatible materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control	parameters

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Controls	Showers	
	Eyewash stations	
	Ventilation systems	

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice. Wash after handling this material and before eating, drinking and/or smoking. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Colorless liquid
Odor	Odorless
Color	Colorless

Property	<u>Values</u>
рН	No data available
Melting point / freezing point	No data available
Boiling point / boiling range	
Flash point	
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Flammability Limit in Air	
Upper flammability or explosive limits:	No data available
Lower flammability or explosive limits:	No data available
Vapor pressure	No data available
Vapor density	No data available
Specific gravity	No data available
Water solubility	No data available
Solubility in other solvents	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available
Explosive properties	No unusual fire or explosion hazards noted.
Oxidizing properties	No data available
Other Information	
Softening point	No data available
Molecular weight	No data available
VOC content (%)	No data available
Liquid density	No data available

Remarks • Methods

10. STABILITY AND REACTIVITY

No data available

Reactivity

Bulk density

Chemical stability

Stable under normal conditions. Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

None known.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Low hazard for usual industrial or commercial handling by trained personnel.	
Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.	
Eye Contact	Direct contact with eyes may cause temporary irritation.	
Skin Contact	Prolonged contact may cause redness and irritation.	

Ingestion	No harmful effects expected in amounts likely to be ingested by accident.
Information on toxicological effects	
Symptoms	None known.
Delayed and immediate effects as v	vell as chronic effects from short and long-term exposure
Skin corrosion/irritation Serious eye damage/eye irritation Sensitization Germ cell mutagenicity Carcinogenicity	Not classified. Not classified. No information available. Not classified. This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Reproductive toxicity STOT – single exposure STOT – repeated exposure Aspiration hazard Other adverse effects	Not classified. Not classified. Not classified. Not classified. No information available.

Numerical measures of toxicity – Product Information

Unknown acute toxicity

7.5 % of the mixture consists of ingredient(s) of unknown toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity

0 % of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium chloride	-	4747 - 7824 mg/L: LC50 96 h	340.7 - 469.2 mg/L: EC50 48 h
7647-14-5		Oncorhynchus mykiss flow-through 5560 - 6080 mg/L: LC50 96 h	Daphnia magna Static 1000 mg/L: EC50 48 h Daphnia magna
		Lepomis macrochirus flow-through 6020 - 7070 mg/L: LC50 96 h	
		Pimephales promelas static 6420 - 6700 mg/L: LC50 96 h Pimephales promelas static 12946 mg/L: LC50 96 h Lepomis macrochirus static 7050 mg/L: LC50 96 h Pimephales promelas semi-static	

Persistence and degradability

Not a PBT or vPvB substance or mixture.

Bioaccumulation

No data available.

Mobility

No data available.

Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container. Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
ICAO (air)	Not regulated
ΙΑΤΑ	Not regulated
IMDF	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Complies
KECL	Does not comply
PICCS	Complies
AICS	Complies
INSQ	This product complies with INSQ

Legend

TSCA—United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL—Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS—European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS—Japan Existing and New Chemical Substances

IECSC—China Inventory of Existing Chemical Substances

KECL—Korean Existing and Evaluated Chemical Substances

PICCS—Philippines Inventory of Chemicals and Chemical Substances

AICS—Australian Inventory of Chemical Substances

INSQ—Mexican National Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Water	-	-	Х
7732-18-5			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

Not applicable

16. OTHER INFORMATION

NFPA HMIS	Health Hazards Health Hazards	-	Flammability Flammability	Instability 0 Physical Hazards	Physical and Chemical Properties - Personal Protection X	
Prepared By Issuing Date Revision Date	Illumina Inc. 07-Nov-2018 18-May-2020					

Disclaimer

Revision Note

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End of Safety Data Sheet