

# SAFETY DATA SHEET

Issue Date 05-Feb-2016 Revision Date 05-Feb-2016 Version 1

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

Product identifier

Product Name MS#-IMS, INCORPORATION MIX,300-CYCLE

Other means of identification

Product Code 15033515

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use reagent

Details of the supplier of the safety data sheet

Manufacturer AddressCompany Phone NumberE-mail addressIllumina, Inc.1-858-809-ILMNSDS@illumina.com

5200 Illumina Way 1-858-202-4566

San Diego, CA 92122 USA

www.illumina.com

Emergency telephone number

24 Hour Emergency Phone Number 1-760-476-3962

# 2. HAZARDS IDENTIFICATION

### Classification

### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122).

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Label elements

# Emergency Overview

Signal word

None

Hazard statements

Not Hazardous

Appearance purple liquid Physical state Liquid Odor Odorless

#### **Precautionary Statements - Prevention**

Handle in accordance with good industrial hygiene and safety practice

#### **Precautionary Statements - Response**

Specific treatment (see supplemental first aid instructions on this label)

### **Precautionary Statements - Storage**

Store away from incompatible materials

#### **Precautionary Statements - Disposal**

Dispose of in accordance with federal, state and local regulations

### Hazards not otherwise classified (HNOC)

Not Applicable

### Other Information

Unknown Acute Toxicity 18.6 % 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.

| Chemical Name    | CAS No    | Weight-% | Trade Secret |
|------------------|-----------|----------|--------------|
| Glycerol         | 56-81-5   | 1 - 5    | *            |
| Ethanolamine     | 141-43-5  | 0.1 - 1  | *            |
| Sodium hydroxide | 1310-73-2 | <0.1     | *            |

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

#### 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

# 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**

Carbon oxides.

**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.

Environmental precautions

**Environmental precautions** Avoid discharge into drains, water courses, or onto the ground.

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 appropriate personal protective equipment (PPE). Contain and/or absorb spill with inert

material (specify sand, vermiculite or other appropriate material)\*, then place in suitable

container. Prevent runoff from entering drains, sewers or waterways.

# 7. HANDLING AND STORAGE

Precautions for safe handling

hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Store away from

incompatible materials.

Incompatible materials Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

| Chemical Name | ACGIH TLV   | OSHA PEL                      | NIOSH IDLH   |
|---------------|-------------|-------------------------------|--------------|
| Glycerol      | -           | TWA: 15 mg/m³ mist, total     | -            |
| 56-81-5       |             | particulate                   |              |
|               |             | TWA: 5 mg/m³ mist, respirable |              |
|               |             | fraction                      |              |
|               |             | (vacated) TWA: 10 mg/m³ mist, |              |
|               |             | total particulate             |              |
|               |             | (vacated) TWA: 5 mg/m³ mist,  |              |
|               |             | respirable fraction           |              |
| Ethanolamine  | STEL: 6 ppm | TWA: 3 ppm                    | IDLH: 30 ppm |
| 141-43-5      | TWA: 3 ppm  | TWA: 6 mg/m <sup>3</sup>      | TWA: 3 ppm   |

|                               |                              | (vacated) TWA: 3 ppm<br>(vacated) TWA: 8 mg/m³<br>(vacated) STEL: 6 ppm<br>(vacated) STEL: 15 mg/m³ | TWA: 8 mg/m³<br>STEL: 6 ppm<br>STEL: 15 mg/m³ |
|-------------------------------|------------------------------|---|---|
| Sodium hydroxide<br>1310-73-2 | Ceiling: 2 mg/m <sup>3</sup> | TWA: 2 mg/m <sup>3</sup> (vacated) Ceiling: 2 mg/m <sup>3</sup>                                     | IDLH: 10 mg/m³<br>Ceilina: 2 ma/m³            |

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

**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.

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical stateLiquidAppearancepurple liquidOdorOdorlessColorpurple

PropertyValuesRemarks • MethodpHNo data available

No data available

pH Melting point / freezing point

Boiling point / boiling range

Flash point

**Evaporation rate**Flammability (solid, gas)
No data available
No data available

Flammability Limit in Air

Upper flammability limit: No data available Lower flammability limit: No data available No data available Vapor pressure 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 pointNo data availableMolecular weightNo data availableVOC Content (%)No data availableDensityNo data availableBulk densityNo data available

# 10. STABILITY AND REACTIVITY

#### Reactivity

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

# 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 well as chronic effects from short and long-term exposure

Skin corrosion/irritation
Serious eye damage/eye irritation
Sensitization
Germ cell mutagenicity

Not classified.
Not classified.
Not classified.
Not classified.

Carcinogenicity 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
Not classified.
Not classified.

Target Organ Effects Eyes, kidney, Respiratory system, Skin.

Aspiration hazard Not classified.

Other adverse effects No information available.

# Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 18.6 % of the mixture consists of ingredient(s) of unknown toxicity

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

16.4 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

#### 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.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name    | California Hazardous Waste Status |
|------------------|-----------------------------------|
| Sodium hydroxide | Toxic                             |
| 1310-73-2        | Corrosive                         |

# 14. TRANSPORT INFORMATION

DOT Not regulated Not regulated TDG Not regulated MEX Not regulated ICAO (air) Not regulated IATA Not regulated IMDG Not regulated <u>RID</u> Not regulated ADR ADN Not regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Does not comply **DSL/NDSL** Does not comply Does not comply **EINECS/ELINCS** Does not comply **ENCS IECSC** Does not comply **KECL** Does not comply **PICCS** Does not comply Does not comply **AICS** 

#### Leaend:

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

# **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 contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name                 | CWA - Reportable<br>Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous<br>Substances |
|-------------------------------|--------------------------------|------------------------|---------------------------|-------------------------------|
| Sodium hydroxide<br>1310-73-2 | 1000 lb                        | -                      | -                         | Х                             |

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name    | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|------------------|--------------------------|----------------|--------------------------|
| Sodium hydroxide | 1000 lb                  | -              | RQ 1000 lb final RQ      |
| 1310-73-2        |                          |                | RQ 454 kg final RQ       |

# **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 |
|-------------------------------|------------|---------------|--------------|
| Ethanolamine<br>141-43-5      | X          | X             | Х            |
| Sodium hydroxide<br>1310-73-2 | X          | X             | Х            |

### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not Applicable

### 16. OTHER INFORMATION

NFPA Health hazards 0 Flammability 0 Instability 0 Physical and Chemical

Properties -

<u>HMIS</u> Health hazards 0 Flammability 0 Physical hazards 0 Personal protection X

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Revision Note Not Applicable. Disclaimer

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**End of Safety Data Sheet**