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|---|--|---------------------------|
|  | | Page: 1 |
| SAFETY DATA SHEET | | Revision Date: 01/22/2016 |
| | | Print Date: 3/22/2018 |
| | | SDS Number: 000000255744 |
| Millisperse™ MS7100 CORROSION INHIBITOR ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 863079 | | Version: 1.0 |

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Millisperse™ MS7100
CORROSION INHIBITOR
™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries

Recommended use of the chemical and restrictions on use

| | |
|---|--|
| Details of the supplier of the safety data sheet Solenis LLC 500 Hercules Road Wilmington, Delaware 19808 United States of America RegulatoryRequestsNA@solenis.com | Emergency telephone number 1-844-SOLENIS (844-765-3647) / 606-329-5705 Product Information 1-844-SOLENIS (844-765-3647) |
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SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

GHS Label element

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Defatter

SAFETY DATA SHEET

Revision Date: 01/22/2016

Print Date: 3/22/2018

SDS Number: 000000255744

Version: 1.0

Millisperse™ MS7100 CORROSION INHIBITOR
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 863079

Hazardous components

| Chemical Name | CAS-No. | Classification | Concentration (%) |
|----------------|----------------|---------------------|--------------------|
| INORGANIC SALT | 254504001-5294 | Eye Irrit. 2A; H319 | >= 60.00 - < 70.00 |

Trade Secret Composition - conceal identity + concentration

SECTION 4. FIRST AID MEASURES

- General advice : No hazards which require special first aid measures.
- If inhaled : If breathed in, move person into fresh air.
 If unconscious place in recovery position and seek medical advice.
 If symptoms persist, call a physician.
- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : Remove contact lenses.
 Protect unharmed eye.
- If swallowed : Do not give milk or alcoholic beverages.
 Never give anything by mouth to an unconscious person.
 If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
 stomach or intestinal upset (nausea, vomiting, diarrhea)
 irritation (nose, throat, airways)
- Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Water spray
 Foam

SAFETY DATA SHEET

Revision Date: 01/22/2016

Print Date: 3/22/2018

SDS Number: 000000255744

Version: 1.0

Millisperse™ MS7100 CORROSION INHIBITOR
 ™ Trademark, Solenis or its subsidiaries or affiliates,
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 863079

Carbon dioxide (CO2)
 Dry chemical


- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Oxides of phosphorus
potassium oxide
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.
- Other information : Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
- Conditions for safe storage : Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with

| | |
|---|---------------------------|
|  | Page: 4 |
| SAFETY DATA SHEET | Revision Date: 01/22/2016 |
| | Print Date: 3/22/2018 |
| | SDS Number: 000000255744 |
| Millisperse™ MS7100 CORROSION INHIBITOR ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 863079 | Version: 1.0 |

the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Engineering measures : General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Skin and body protection : Wear resistant gloves (consult your safety equipment supplier).
Wear as appropriate:
Safety shoes

Hygiene measures : General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Colour : colourless

Odour : No data available

Odour Threshold : No data available

pH : 10.0 - 10.8

Melting point/freezing point : No data available

SAFETY DATA SHEET

Revision Date: 01/22/2016

Print Date: 3/22/2018

SDS Number: 000000255744

Version: 1.0

Millsperse™ MS7100 CORROSION INHIBITOR
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 863079

Boiling point/boiling range : 216 °F / 102 °C
 (1013 hPa)

Flash point : No data available

Evaporation rate : > 1
 Ethyl Ether

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 16.00 mmHg (68.00 °F)

Relative vapour density : < 1AIR=1

Relative density : +/- 0.05 1.74 (68.00 °F)

Density : 1.71 - 1.80 g/cm3

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-
 octanol/water : No data available

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

Molecular weight : 384 g/mol

SECTION 10. STABILITY AND REACTIVITY

SAFETY DATA SHEET

Revision Date: 01/22/2016

Print Date: 3/22/2018

SDS Number: 000000255744

Version: 1.0

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 863079

- Reactivity : No decomposition if stored and applied as directed.
- Chemical stability : Stable under recommended storage conditions.
- Possibility of hazardous reactions : Product will not undergo hazardous polymerization.
- Incompatible materials : Strong acids
 This product should not be used in conjunction with trimethylol propane or trimethylol propane-derived products. There is a possibility that bicyclic phosphates or phosphites can be produced as a result of the thermal decomposition of this product in combination with trimethylol propane, trimethylol propane-derived products or their corresponding trimethylol propane alkane homologs. Bicyclic phosphates and phosphites are a class of materials with acute neurotoxic properties which produce characteristic convulsive seizures in test animals.
- Hazardous decomposition products : Oxides of phosphorus
 potassium oxide

SECTION 11. TOXICOLOGICAL INFORMATION

- Information on likely routes of exposure : Inhalation
 Skin contact
 Eye Contact
 Ingestion

Acute toxicity
 Not classified based on available information.

Components:

INORGANIC SALT:

- Acute oral toxicity : LD L0 (Rat): 4,640 mg/kg
- Acute dermal toxicity : LD 50 (Rabbit): > 4,640 mg/kg

Skin corrosion/irritation
 Not classified based on available information.

Product:

Result: Mildly irritating to skin

Result: Repeated exposure may cause skin dryness or cracking.

SAFETY DATA SHEET

Revision Date: 01/22/2016

Print Date: 3/22/2018

SDS Number: 000000255744

Version: 1.0

Millsperse™ MS7100 CORROSION INHIBITOR
 ™ Trademark, Solenis or its subsidiaries or affiliates,
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 863079

Components:

INORGANIC SALT:

Result: Mildly irritating to skin

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Result: Mildly irritating to eyes

Remarks: Unlikely to cause eye irritation or injury.

Components:

INORGANIC SALT:

Result: Irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information**Product:**

Remarks: No data available

Carcinogenicity:**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen

SAFETY DATA SHEET

Revision Date: 01/22/2016

Print Date: 3/22/2018

SDS Number: 000000255744

Version: 1.0

Millsperse™ MS7100 CORROSION INHIBITOR
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registered in various countries
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by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC 50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC 50 (Water flea (Daphnia magna)): > 100 mg/l
aquatic invertebrates Exposure time: 48 h

LC 50 (Opossum shrimp (Americamysis bahia)): > 100 mg/l
Exposure time: 96 h

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Additional ecological : An environmental hazard cannot be excluded in the event of
information unprofessional handling or disposal., Harmful to aquatic life.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : The product should not be allowed to enter drains, water
courses or the soil.

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

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste



SAFETY DATA SHEET

Revision Date: 01/22/2016

Print Date: 3/22/2018

SDS Number: 000000255744

Version: 1.0

Millsperse™ MS7100 CORROSION INHIBITOR
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handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

| ID NUMBER | PROPER SHIPPING NAME | *HAZARD CLASS | SUBSIDIARY HAZARDS | PACKING GROUP | MARINE POLLUTANT / LTD. QTY. |
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|

U.S. DOT - ROAD

Not dangerous goods

U.S. DOT - RAIL

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

TRANSPORT CANADA - ROAD

Not dangerous goods

TRANSPORT CANADA - RAIL

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO


Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Not dangerous goods

| | |
|---|---------------------------|
|  | Page: 10 |
| SAFETY DATA SHEET | Revision Date: 01/22/2016 |
| | Print Date: 3/22/2018 |
| | SDS Number: 000000255744 |
| Millisperse™ MS7100 CORROSION INHIBITOR ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 863079 | Version: 1.0 |

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

| | |
|------------------|----|
| Marine pollutant | no |
|------------------|----|


Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15. REGULATORY INFORMATION

- SARA 311/312 Hazards** : No SARA Hazards
- SARA 313 Component(s)** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- California Prop 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
- The components of this product are reported in the following inventories:**
 - TSCA : On TSCA Inventory
 - DSL : All components of this product are on the Canadian DSL.
 - AUSTR : On the inventory, or in compliance with the inventory
 - ENCS : On the inventory, or in compliance with the inventory
 - KECL : On the inventory, or in compliance with the inventory
 - PHIL : On the inventory, or in compliance with the inventory
 - IECSC : On the inventory, or in compliance with the inventory

Inventories
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECL (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)
Registration: Trade Secret

| | |
|----------------|-----------------------|
| Chemical Name | Identification number |
| INORGANIC SALT | 254504001-5294 |

| | |
|--|---------------------------|
|  | Page: 11 |
| SAFETY DATA SHEET | Revision Date: 01/22/2016 |
| | Print Date: 3/22/2018 |
| | SDS Number: 000000255744 |
| Millsperse™ MS7100 CORROSION INHIBITOR ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 863079 | Version: 1.0 |

SECTION 16. OTHER INFORMATION

Further information

Revision Date: 01/22/2016

Full text of H-Statements referred to under sections 2 and 3.

H319 Causes serious eye irritation.

Further information

Sources of key data used to compile the Safety Data Sheet

Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by the Solenis Environmental Health and Safety Department.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx : Lethal Dose, for xx percent of test population.


ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

| | |
|--|---------------------------|
|  | Page: 12 |
| SAFETY DATA SHEET | Revision Date: 01/22/2016 |
| | Print Date: 3/22/2018 |
| | SDS Number: 000000255744 |
| Millspers [™] MS7100 CORROSION INHIBITOR [™] Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 863079 | Version: 1.0 |

P-Statement : Precautionary Statement
 PBT : Persistent , Bioaccumulative and Toxic
 PPE : Personal Protective Equipment
 STEL : Short-term exposure limit
 STOT : Specific Target Organ Toxicity
 TLV : Threshold Limit Value
 TWA : Time-weighted average
 vPvB : Very Persistent and Very Bioaccumulative
 WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act
 DOT : Department of Transportation
 FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act
 HMIRC : Hazardous Materials Information Review Commission
 HMIS : Hazardous Materials Identification System
 NFPA : National Fire Protection Association
 NIOSH : National Institute for Occupational Safety and Health
 OSHA : Occupational Safety and Health Administration
 PMRA : Health Canada Pest Management Regulatory Agency
 RTK : Right to Know
 WHMIS : Workplace Hazardous Materials Information System