

SAFETY DATA SHEET

Excel, Pot & Pan Detergent

EM SYSTEMS INC.

Revision Date: November 7, 2014

Product Identifier:

Product Name: Excel Pot & Pan Detergent

Recommended Use of the Chemical and Restrictions on Use

Recommended Use: Manual Washing in sink, Use: up to .16oz/gal in water

Details of the Supplier of the Safety Data Sheet

Supplier Address: E.M. Systems, Inc. 1931 West 2425 South Woods Cross, UT 84087

Emergency Telephone Number

Company Phone Number: 801-292-8051

Emergency Telephone: CHEMTREC: 1-800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification:

| | |
|--------------------|-------------|
| Serious eye damage | Category 2b |
| Eye Irritation | Category 2b |

GHS Label element:

Signal Word: Warning

Hazard statements: Causes eye irritation.

Precautionary Statements:

Prevention: Wash hands thoroughly after handling.

Response: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Wash thoroughly after handling.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage: No other specific measures identified.

Disposal: See section 13 for waste disposal information

Other Hazards: None Known.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

| Product AS SOLD, Pure substance or Mixture: <u>Mixture</u> | | |
|--|------------|-----------------|
| Chemical Name | CAS No | Concentration-% |
| SODIUM C14-16 OLEFIN SULFONATE | 68439-57-6 | 5-20% |
| poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-,c10-16-alkyl ethers, sodium salts | 68585-34-2 | 1-5% |
| COCAMINE OXIDE | 61788-90-7 | 1-5% |

SAFETY DATA SHEET

Excel, Pot & Pan Detergent

EM SYSTEMS INC.

Revision Date: November 7, 2014

SECTION 4: FIRST AID MEASURES

Product AS SOLD:

| | |
|-----------------------------|---|
| In case of eye contact: | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists. |
| In case of skin contact: | No known effect after skin contact. Rinse with water for a few minutes. |
| If swallowed: | Get medical attention if symptoms occur. |
| If inhaled: | No special measures required. Treat symptomatically. |
| Protection of first-aiders: | No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |
| Notes to physician: | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. See toxicology information (Section 11) |

SECTION 5: FIRE-FIGHTING MEASURES

Suitable fire extinguishing

Media: Use water spray, fog or foam.

Specific hazards arising

From the chemical: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal

Decomposition products: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides

Specific fire-fighting

Methods: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective

equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

| | | |
|----------------------------------|---|---|
| Personal Precautions | : | Use personal protective equipment as required. |
| Environmental Precautions | : | Avoid contact of large amounts of spilled material and runoff with soil and surface waterways |
| Methods for cleaning up | : | Use a water rinse for final clean-up. |
| Handling Storage | : | Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep out of reach of children. Keep container tightly closed. Store between the following temperatures: 0 and 50°C |

SAFETY DATA SHEET

Excel, Pot & Pan Detergent

EM SYSTEMS INC.

Revision Date: November 7, 2014

SECTION 7: HANDLING AND STORAGE

| | Product: AS SOLD | Product: AT USE, DILUTION |
|----------|---|---|
| Handling | Avoid contact with eyes, skin and clothing. Wash thoroughly after handling | Wash thoroughly after handling. |
| Storage | Keep out of reach of children. Keep container tightly closed. Store between the following temperatures: 0 and 50°C | Keep out of reach of children. Keep container tightly closed. |

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS:

None

Appropriate engineering controls:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal Protection:

Eye protection:

No protective equipment is needed under normal use conditions.

Hand Protection:

No protective equipment is needed under normal use conditions.

Skin protection:

No protective equipment is needed under normal use conditions

Respiratory protection:

A respirator is not needed under normal and intended conditions of product use.

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: Pink

Flash point: >100°C

Odor Threshold: No data available

Initial boiling point: No data available

Flammability (solid, gas) : No data available

Lower explosion limit : No data available

Relative vapor density: No data available

Solubility: Easily soluble in the following materials: cold water and hot water.

Solubility in other solvents: No data available

Autoignition temperature : No data available

Viscosity, kinematic : No data available

Explosive properties : No data available

Molecular weight : No data available

Odor: Lemon

pH: 7.5 to 8.5 100%

Boiling point: >100°C (>212°F)

Melting point/freezing point: No data available

Evaporation rate: any data available

Upper explosion limit : No data available

Vapor pressure : No data available

Relative density: 1.046 (Water =1)

Partition coefficient: No data available

Thermal decomposition : No data available

VOC : No data available

Oxidizing properties : No data available

SECTION 10: STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: None known.

Materials to avoid: Not available

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SAFETY DATA SHEET

Excel, Pot & Pan Detergent

EM SYSTEMS INC.

Revision Date: November 7, 2014

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information: Potential Health Effects

Inhalation: No specific data.

Eye Contact: Adverse symptoms may include the following: irritation watering redness

Skin Contact: No specific data.

Ingestion: No specific data.

Product Information: Experience with human exposure.

Eye contact: Redness, watering, irritation

Skin contact: No specific data

Ingestion: No specific data

Inhalation: No specific data

Toxicity data:

Product/ingredient name: Not applicable

Chronic toxicity:

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards

Teratogenicity: No known significant effects or critical hazards

Developmental effects: No known significant effects or critical hazards

Fertility effects: No known significant effects or critical hazards

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|----------------------|--------------------------|-----------------|
| sulfonic acids, c14-16-alkane hydroxy and c14-16-alkene, sodium salts | LD50 Rat> 3983 mg/kg | LD50 Rabbit > 6300 mg/kg | - |
| poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers,sodium salts | LD50 Rat> 846 mg/kg | LD50 Rat > 2000 mg/kg | - |
| amines, coco alkyl dimethyl, n-oxides | LD50 Rat >2500 mg/kg | LD50 Rat > 2174 mg/kg | - |

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No known significant effects or critical hazards

Aquatic and terrestrial toxicity

| Chemical Name | Result | Species | Exposure |
|---|---------------------|---------|----------|
| sulfonic acids, c14-16-alkane hydroxy and c14-16-alkene, sodium salts | Acute LC50 4.2 mg/l | Fish | 96 hours |
| poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts | Acute LC50 28 mg/l | Fish | 96 hours |
| amines, coco alkyl dimethyl, n-oxides | Acute LC50 <1 mg/l | Fish | 96 hours |

Other adverse effects: No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods: Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

SAFETY DATA SHEET

Excel, Pot & Pan Detergent

EM SYSTEMS INC.

Revision Date: November 7, 2014

SECTION 14: TRANSPORT INFORMATION

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

Land transport (DOT)

UN number: NOT REGULATED
Description of the goods:
Class:
Packing group:
Environmentally hazardous:

Sea transport (IMDG/IMO)

UN number: NOT REGULATED
Description of the goods:
Class:
Packing group:
Marine pollutant:

SECTION 15: REGULATORY INFORMATION

U.S. Federal regulations

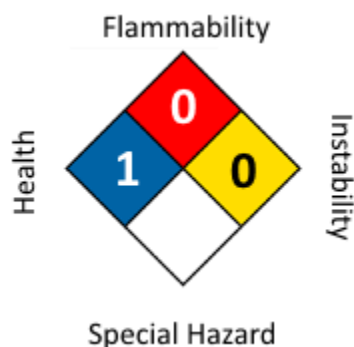
TSCA 8(b) inventory: All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No listed substance

SARA 302/304 emergency planning and notification: No listed substance

| SARA 313 | Product name | CAS number | Concentration |
|---------------------------------|---------------------|------------|---------------|
| Form R – Reporting requirements | No listed substance | - | - |
| California Prop. 65 | No listed substance | - | - |

SECTION 16: OTHER INFORMATION



HMIS III:

| | |
|---|---|
| HEALTH | 1 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |
| 0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic | |

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of publication. The information is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet