



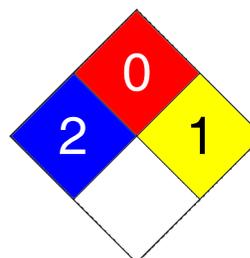
# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product Name** IMS Daily Clean  
**CAS #** Mixture  
**Product use** Cleaner  
**Manufacturer** Hu-Friedy Mfg. Co., LLC  
 3232 N. Rockwell  
 Chicago, IL 60618-5982 US  
 Phone: 773.975.6100  
 Fax: 773.868.3599  
 Emergency Phone: 1-800-535-5053  
 Outside US: 001-352-323-3500

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 2
Flammability	0
Physical Hazard	1
Personal Protection	X



## 2. Hazards Identification

**Emergency overview** WARNING  
 Corrosive to aluminum.  
 Eye and skin irritant.

**Potential short term health effects**

**Routes of exposure** Eye, Skin contact, Skin absorption, Inhalation, Ingestion.

**Eyes** May cause severe irritation or chemical burns.

**Skin** Causes irritation. May be absorbed through the skin.

**Inhalation** Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

**Ingestion** Harmful if swallowed. May cause stomach distress, nausea or vomiting.

**Target organs** Eyes. Respiratory system. Skin.

**Chronic effects** Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis.

**Signs and symptoms** The product causes burns of eyes, skin and mucous membranes.

**OSHA Regulatory Status** Not available

**Potential environmental effects** Not available

## 3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Urea	57-13-6	7 - 13
Sodium tripolyphosphate	7758-29-4	30 - 60
Sodium carbonate	497-19-8	15 - 40
Amides, coco, N,N-bis(hydroxyethyl)	68603-42-9	1 - 5

## 4. First Aid Measures

**First aid procedures**

**Eye contact** Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.

**Skin contact** Brush away excess of dry material. Immediately flush with cool water for 15 minutes. Obtain medical attention if irritation persists. Wash contaminated clothing well before reuse or discard.

<b>Inhalation</b>	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
<b>Ingestion</b>	Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
<b>Notes to physician</b>	Symptoms may be delayed.
<b>General advice</b>	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

## 5. Fire Fighting Measures

<b>Flammable properties</b>	Not flammable by WHMIS/OSHA criteria.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Water spray. Dry chemical. Carbon dioxide. Alcohol foam.
<b>Unsuitable extinguishing media</b>	Not available
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Not available
<b>Protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of phosphorus.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not expected to be sensitive to mechanical impact.
<b>Sensitivity to static discharge</b>	Not expected to be sensitive to static discharge.

## 6. Accidental Release Measures

<b>Personal precautions</b>	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
<b>Environmental precautions</b>	Not available
<b>Methods for containment</b>	Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for cleaning up</b>	Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

## 7. Handling and Storage

<b>Handling</b>	Use good industrial hygiene practices in handling this material. Do not get this material in your eyes, on your skin, or on your clothing.
<b>Storage</b>	Keep out of the reach of children. Store in a closed container away from incompatible materials.

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## 8. Exposure Controls / Personal Protection

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### Exposure limits

Ingredient(s)	Exposure Limits
Amides, coco, N,N-bis(hydroxyethyl)	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Sodium carbonate	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Sodium tripolyphosphate	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Urea	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established

### Engineering controls

General ventilation normally adequate.

### Personal protective equipment

#### Eye / face protection

Wear chemical goggles.

#### Hand protection

Rubber gloves. Confirm with a reputable supplier first.

#### Skin and body protection

As required by employer code.

#### Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

#### General hygiene considerations

Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

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## 9. Physical and Chemical Properties

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<b>Appearance</b>	Free-flowing Powder and Granules
<b>Color</b>	White.
<b>Form</b>	Powder and Granules
<b>Odor</b>	None to slight
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Solid
<b>pH</b>	10 - 11 (1%)
<b>Melting point</b>	Not available
<b>Freezing point</b>	Not available
<b>Boiling point</b>	Not applicable
<b>Pour point</b>	Not available
<b>Evaporation rate</b>	Not available
<b>Flash point</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Flammability limits in air, upper, % by volume</b>	Not available
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Specific gravity</b>	Not available

Octanol/water coefficient	Not available
Solubility (H2O)	Appreciable
Viscosity	Not applicable
Percent volatile	Not available

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## 10. Stability and Reactivity

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<b>Reactivity</b>	Not available
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals. Reacts with soft metals such as aluminum producing flammable hydrogen gas.
<b>Incompatible materials</b>	Corrosive to aluminum. Caustics. Acids. Oxidizers. Reducing agents.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of phosphorus.

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## 11. Toxicological Information

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### Component analysis - LC50

Ingredient(s)	LC50
Amides, coco, N,N-bis(hydroxyethyl)	Not available
Sodium carbonate	400 mg/m3 guinea pig
Sodium tripolyphosphate	Not available
Urea	Not available

### Component analysis - Oral LD50

Ingredient(s)	LD50
Amides, coco, N,N-bis(hydroxyethyl)	2700 mg/kg rat
Sodium carbonate	4090 mg/kg rat
Sodium tripolyphosphate	3100 mg/kg rat
Urea	11000 mg/kg mouse; 8471 mg/kg rat; 510 mg/kg cattle; 510 mg/kg sheep

### Effects of acute exposure

<b>Eye</b>	May cause severe irritation or chemical burns.
<b>Skin</b>	Causes irritation. May be absorbed through the skin.
<b>Inhalation</b>	Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).
<b>Ingestion</b>	Harmful if swallowed. May cause stomach distress, nausea or vomiting.
<b>Sensitization</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Chronic effects</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Carcinogenicity</b>	Non-hazardous by WHMIS/OSHA criteria. No ingredients listed by IARC, ACGIH, NTP or OSHA.
<b>Mutagenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Reproductive effects</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Teratogenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Name of Toxicologically Synergistic Products</b>	Not available

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## 12. Ecological Information

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**Ecotoxicity** Components of this product have been identified as having potential environmental concerns.

**Ecotoxicity - Freshwater Algae - Acute Toxicity Data**

Sodium carbonate 497-19-8 120 Hr EC50 Nitzschia: 242 mg/L

**Ecotoxicity - Freshwater Fish - Acute Toxicity Data**

Amides, coco, 68603-42-9 96 Hr LC50 Brachydanio rerio: 3.6 mg/L [semi-static]

N,N-bis(hydroxyethyl)

Sodium carbonate 497-19-8 96 Hr LC50 Lepomis macrochirus: 300 mg/L [static]; 96 Hr LC50 Pimephales promelas: 310 - 1220 mg/L [static]

Sodium tripolyphosphate 7758-29-4 48 Hr LC50 Leuciscus idus: 1650 mg/L

Urea 57-13-6 96 Hr LC50 Poecilia reticulata: 16200-18300 mg/L

**Ecotoxicity - Water Flea - Acute Toxicity Data**

Amides, coco, 68603-42-9 24 Hr EC50 Daphnia magna: 4.2 mg/L

N,N-bis(hydroxyethyl)

Sodium carbonate 497-19-8 48 Hr EC50 Daphnia magna: 265 mg/L

Urea 57-13-6 24 Hr EC50 Daphnia magna Straus: >10000 mg/L; 48 Hr EC50 Daphnia magna: 3910 mg/L [Static]

**Persistence / degradability** Not available

**Bioaccumulation / accumulation** Not available

**Mobility in environmental media** Not available

**Environmental effects** Not available

**Aquatic toxicity** Not available

**Partition coefficient** Not available

**Chemical fate information** Not available

**Other adverse effects** Not available

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## 13. Disposal Considerations

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**Disposal instructions** Dispose in accordance with all applicable regulations.

**Waste from residues / unused products** Not available

**Contaminated packaging** Not available

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## 14. Transport Information

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**U.S. Department of Transportation (DOT)**

Not regulated as dangerous goods.

**Transportation of Dangerous Goods (TDG - Canada)**

Not regulated as dangerous goods.

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## 15. Regulatory Information

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**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**Canada - WHMIS - Ingredient Disclosure List**

Sodium carbonate 497-19-8 1 %

**WHMIS status** Controlled

**WHMIS classification** Class D - Division 2B, Class E - Corrosive Material

**WHMIS labeling**



**Occupational Safety and Health Administration (OSHA)**

29 CFR 1910.1200 hazardous chemical Yes

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**US Federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

Sodium tripolyphosphate 7758-29-4 5000 Lb final RQ (listed under Sodium phosphate, tribasic); 2270 kg final RQ (listed under Sodium phosphate, tribasic)

**U.S. - CWA (Clean Water Act) - Hazardous Substances**

Sodium tripolyphosphate 7758-29-4 Present

**CERCLA (Superfund) reportable quantity**

Sodium tripolyphosphate: 5000.0000

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
 Immediate Hazard - Yes  
 Delayed Hazard - No  
 Fire Hazard - No  
 Pressure Hazard - No  
 Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**Clean Air Act (CAA)** Not available

**Clean Water Act (CWA)** Hazardous substance

**State regulations** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances**

Sodium tripolyphosphate 7758-29-4 Present (listed under Sodium phosphate, tribasic)

**U.S. - Louisiana - Reportable Quantity List for Pollutants**

Sodium tripolyphosphate 7758-29-4 5000 Lb final RQ (listed under Sodium phosphate, tribasic); 2270 kg final RQ (listed under Sodium phosphate, tribasic)

**U.S. - Massachusetts - Right To Know List**

Sodium tripolyphosphate 7758-29-4 Present

**U.S. - Minnesota - Hazardous Substance List**

Urea 57-13-6 Present

**U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances**

Sodium tripolyphosphate 7758-29-4 5000 Lb RQ (air); 100 lb RQ (land/water)

**U.S. - Pennsylvania - RTK (Right to Know) List**

Sodium tripolyphosphate 7758-29-4 Environmental hazard

**Inventory name**

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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## 16. Other Information

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**Disclaimer**

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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