

SAFETY DATA SHEET

Nature Clean Automatic Dishwasher Pacs.

Issuing Date: January 24, 2016

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

Product Identifier:

Product Name Automatic Dishwasher Powder.

Other Identification Means:

Synonyms None

Use of Substance/Preparation and Restrictions:

Recommended Use: Automatic Dishwasher Pacs.
Uses Advised Against: No information available

SDS Supplier Details:

Company Name: Frank T. Ross Limited.
Company Identification: 110 Riviera Drive, Unit 3
Markham, Ontario L3R 5M1

Company Emergency Telephone Number Emergency Phone: 905-940-1107

2. HAZARDS IDENTIFICATION

Classification:

This product is considered hazardous under the 2012 OSHA Hazard Communication Standard (29 CER 1910.1200) and WHMIS 2015.

GHS Label Elements, including precautionary statement:

Emergency Overview: Irritant

Acute Toxicity 4 (Oral) H302
Skin Irritation 2 H315
Eye Irritation 2A H319
Inhalation (Dusts/Mists) 4 H332

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US/ CDN):



Hazard Statements (GHS-US/CDN):

Signal Word (GHS-US/CDN): Warning

Hazard Statements (GHS-US/CDN):

H302 Harmful if swallowed.
H315 Causes skin irritation.

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H319 Causes serious eye irritation.

H332 Harmful if inhaled.

Precautionary Statements (GHS-US/CDN):

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary Statements (GHS-US/CDN):

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Description:

Chemical

Ingredient	CAS #	% by Wt	Trade Secret
Sodium Carbonate	497-19-8	35-60	*
Alcohol Elthoxylate	n/a	1-5	*
Sodium Citrate	6132-04-3	35-60	*
Sodium salt of poly aspartic acid	181828-06-8	1-5	*
Sodium percarbonate	15630-89-4	5-10	*
Sodium metasilicate	6834-92-0	1-5	*
Protease	9014-01-1	1-5	*

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First Aid Measures:

Eye Contact:

Remove contacts. Flush with water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin Contact:

Thoroughly wash exposed skin with soap and water. Remove any contaminated clothing and wash before reuse.

Inhalation:

Remove to fresh air. If symptoms persist consult physician.

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Ingestion: Wash out mouth with water. Drink plenty of water. Do not induce vomiting unless directed by medical personal. Never give anything to an unconscious person. Get medical aid.

Notes to Physician: Treatment based on judgment of attending physician.

Most Important symptoms and effects, both acute and delayed: No information available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Flood with water for extinguishing agent. CO2, dry chemical, alcohol resistant foam

Unsuitable Extinguishing Media No information available.

Specific Exposure Hazards Thermal decomposition releases irritating gases.

Hazardous Combustion Products Carbon Oxides.

Explosion Data:

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: None.

Special safety equipment: Self-contained positive pressure breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe mist or dust.

Environmental Precautions:

Environmental Precautions: Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up:

Method for Containment: Contain any spills with dikes to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clear up spills immediately with absorbent and dispose of waste safely.

Procedures for Non-Emergency Personnel:

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

Procedures for Emergency Personnel:

Protective Equipment: Equip cleanup crew with proper protection.

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Emergency Procedures: Ventilate area.

Reference to Other Sections: See Heading 8. Exposure Controls and Personal Protection.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Handling: Ensure good ventilation/exhaustion at the workplace.

Information about fire and explosion protection: Keep respiratory protective device available.
No special measures required.

Conditions for safe storage, including any incompatibilities:

Requirements to be met by storerooms and receptacles: Store in a cool location.
Protect from humidity and water.
Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
Store receptacle in a well ventilated area.
Keep container tightly sealed.

Specific end use(s): No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters:

Exposure Guidelines Exposure guideline for dust is 15 mg/m³ (OSHA PEL for total dust)
Use local exhaust or dilution ventilation. If dust present use approved dust mask.

Appropriate Engineering Controls:

Engineering Measures Showers. Eyewash Stations. Ventilation Systems.

Individual Protection Measures:

For Household usage:

No special protective equipment required.

For industrial Settings:

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Eye protection:	Safety goggles.
Skin protection:	Use body-covering impervious clothing.
Hand protection:	Chemical resistant gloves.
Respiratory protection:	Use local exhaust or dilution ventilation.
Working hygiene:	Take usual precautions when handling. Workers should wash hands before eating, drinking or smoking.

Sodium Carbonate CAS#497-19-8: ACGIH (United States) TWA: 15 mg/m³ Form: Dust
Sodium Percarbonate CAS#15630-89-4: ACGIH (United States) TWA: 15 mg/m³ Form: Dust
Sodium Metasilicate CAS# 6834-92-0: ACGIH TLV (United States) TWA: 10 mg/m³ 8 hour(s). Form: Dust

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State	Powder	Odour	Typical-low odour.
Appearance	White	Odour Threshold	No information available.
Colour	White.		

<u>Property</u>	<u>Values</u>	<u>Remarks/Method</u>
pH 10 % solution	10.5-11.5	None known
Melting/Freezing Point	No data available	None known
Boiling Point/Range	Not data available	None known
Flash Point	None	None known
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air:		
Upper Limit	No data available	None known
Lower Limit	No data available	None known
Vapour Pressure	No data available	None known
Vapour density	No data available	None known
Specific Gravity	0.8-1.0 g/cm ³	
Water Solubility	Soluble in water.	None known
Solubility Other Solvents	No data available	None known
Partition Coefficient:		
n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Decomposition Temperature	No data available	None known
Kinematic Viscosity	No data available	None known
Dynamic Viscosity	No data available	None known
Explosive Properties	No data available	None known
Oxidizing Properties	No data available	None known

Other Properties:

Softening Point	No data available
VOC Content %	No data available

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Particle Size No data available
Particle Size Distribution No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available
Chemical Stability: Stable under recommended storage conditions
Possibility of Hazardous Reactions: None under normal processing
Hazardous Polymerization: Does not occur.
Conditions to avoid: Incompatible agents
Incompatible materials: Oxidizing agents, acids.
Hazardous Decomposition Products: Carbon oxides.
Thermal Decomposition / Conditions to be avoided: Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Product Information

Inhalation Specific test data for substance/mixture not available
Eye Contact Slight irritation
Skin Contact Specific test data for substance/mixture not available
Ingestion Specific test data for substance/mixture not available

Component Information:

Chemical Name	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat) 1 h
Sodium Carbonate CAS#497-19-8	4,090 mg/Kg	>2,000 mg/Kg	No data available.
Alcohol Elthoxylate CAS# n/a	2,000 mg/Kg	>2,000 mg/Kg	
Sodium Citrate CAS#6132-04-3	>5000 mg/Kg	>2,000 mg/Kg	No data available.
Sodium Percarbonate CAS#15630-89-4	2,400 mg/Kg	No data available.	No data available.
Sodium Metasilicate CAS#6834-92-0	1,153 mg/Kg	No data available.	No data available.
Protease CAS# 9014-01-1	>2000 mg/Kg	No data available.	No data available.

Information on Toxicological Effects:

Symptoms None known

Delayed/Immediate/Chronic Effects from short and long term exposure:

Sensitization None known
Mutagenic Effects None known
Carcinogenicity No ingredients listed as a carcinogen
Reproductive Toxicity None known
STOT- Single Exposure None known

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STOT Repeated exposure	None known
Chronic Toxicity	None known
Target Organ Effects	None Known
Numerical Measures of Toxicity (based on GHS Chapter 3.1)	Not applicable

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Not classified.
Persistence and Degradability:	No information available
Bioaccumulative Potential:	No information available
Mobility in Soil:	No information available
Other Adverse Effects:	No information available
Other Information:	Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

Waste treatment Methods	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste. If chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.
Disposal Methods	Dispose of contents/containers in accordance with local regulations.
Contaminated Packaging: California Hazardous Waste Codes	Not available.
Ecology – Waste Materials:	Avoid release to the environment.

14. TRANSPORT INFORMATION

<u>DOT:</u>	Not Regulated
<u>TDG</u>	Not Regulated
<u>MEX</u>	Not Regulated
<u>ICAO</u>	Not Regulated
<u>IATA:</u>	Not Regulated
<u>IMDG/IMO:</u>	Not Regulated
<u>RID</u>	Not Regulated
<u>ADR</u>	Not Regulated
<u>ADN</u>	Not Regulated

15. REGULATORY INFORMATION

International Inventories:

TSCA	Complies
DSL	All components are listed either on the DSL or NDSL

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

DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List.

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Canadian Regulations:

Canadian WHMIS Classification: D2B
Health Canada DIN: Not applicable.
Canadian DSL: Appears.

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 Qtys.	CWA-Toxic Pollutants	CWA-Priority Pollutants	CWA-Hazardous Substances
None				

CERCLA

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

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
None			

US State Regulations:

California Proposition 65

This product does not contain any Proposition 65 Chemicals.

16. OTHER INFORMATION

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	Health Hazard	Flammability	Instability	Physical Hazard	Physical and Chemical Hazards – Personal Protections
NFPA	3	0	0	n/a	X
HMIS	3	0	n/a	0	B

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Revision Date: None

Revision Note: None.

Disclaimer:

The manufacturer warrants that this product conforms to its standard specification when used according to direction. To the best of our knowledge the information contained herein is accurate. However we do not assume accuracy or completeness of the information contained herein.

Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

End of Safety Data Sheet