Section 1 - Product and Company identification

Trade name: Astound – Powdered Laundry Detergent

Manufacturer:
Metro-Chem, Inc.
24 Pennsylvania Avenue
Kearny, NJ 07032

Emergency Phone: 800-424-9300
Other Information: 973-589-2800
Date Prepared: 02-22-1996
Latest Revision: 10-19-2015

Section 2 – Hazard(s) Identification

Classification:

Health, Acute toxicity- Oral	Category 4
Health, Acute toxicity- Inhalation(Vapors, Dusts, Mists)	Category 4
Skin Corrosion/irritation	Category 1 Sub-category B
Health, Serious Eye Damage/Eye Irritation	Category 1
Skin Sensitization	Category 1
Acute Specific Target Organ Toxicity Single Exposure	Category 3

Label:



Signal Word: Danger

Hazard Statements
Harmful if swallowed
Harmful if inhaled
Cause severe skin burns and eye damage.
May cause an allergic skin reaction.
May cause respiratory irritation.

Precautionary Statements- Prevention
Read label before use
Do not breathe (dust/fume/gas/mist/vapors/spray)
Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in well ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection
Contaminated work clothing must not be allowed out of work place.

Precautionary Statements -Response
Immediately call a poison control center or doctor/physician

If on SKIN (or hair), remove/take off immediately all contaminated clothing; rinse skin with water or use shower. For severe skin burns, get medical attention. Wash contaminated clothing before reuse. If skin irritation or rash occurs : get medical attention.
If in EYES, rinse cautiously with water for several minutes; remove contact lenses, if present and easy to do; continue rinsing. Immediately call a poison control center or doctor/physician
If SWALLOWED, rinse mouth; do not induce vomiting. Immediately call a POISON center/doctor
If INHALED, remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a POISON center/doctor.

Precautionary Statements –Storage
Store locked up. Store in a well ventilated place. Keep container tightly closed.

Precautionary Statements –Disposal
Dispose of contents/container to an approved waste disposal plant.

Other Hazards
Harmful to aquatic life with long lasting effects

Section 3 – Composition/information on ingredients

Disodium Trioxosilicate, Anhydrous	CAS 6834-92-0	Percentage 70%-85%
Calcium Silicate	CAS 1344-95-2	Percentage < 5%
D'Limonene	CAS 5989-27-5	Percentage < 5%
Nonylphenol Ethoxylate	CAS 127087-87-0	Percentage 5%-15%

Section 4 –First-Aid Measures

First-Aid Measures

General Advice	Immediately call a poison control center or doctor/physician
Eye Contact	Rinse cautiously with water for several minutes.Remove contact Lenses, if present and easy to do.Continue rinsing. Immediately call a poison control center or doctor/physician.
Skin Contact	Remove/take off immediately all contaminated clothing; rinse skin with water or use shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs : get medical attention.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON center/doctor
Ingestion	Call a poison center or doctor/physician if you feel unwell. Rinse mouth. Do not induce vomiting.

Most important symptoms and effects.

Symptoms	Harmful if swallowed. Harmful if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation.

Indication of any immediate medical attention and special treatment needed

Note to Physician	**Treat symptomatically**

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media
Water spray, carbon dioxide, other suffocating.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical
There is a possibility of wet mixture forming hydrogen when in contact with aluminum and/or zinc.

Hazardous Combustion Products Hydrogen.

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.

Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment as required.

Environmental Precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Sweep up as much as possible and place in a labeled closed container.

Section 7 – Handling and Storage Measures

Precautions for safe handling.

Advice on Safe Handling Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing and eye/face protection. Contaminated work clothing must not be allowed out of the workplace.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Incompatible Materials Zinc. Aluminum.

Section 8 – Exposure Controls/Personal Protection

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium metasilicate 6834-92-0	2 mg/m^3	2 mg/m^3	-
Synthetic calcium silicate 1344-95-2	TWA: 10 mg/m^3 particulate matter containing no asbestos and <1% crystalline silica synthetic nonfibrous	TWA: 15 mg/m^3 total dust TWA: 5 mg/m^3 respirable fraction (vacated) TWA: 15 mg/m^3 total dust (vacated) TWA: 5 mg/m^3 respirable fraction	TWA: 10 mg/m^3 total dust TWA: 5 mg/m^3 respirable dust

Appropriate engineering controls

Engineering Controls Local exhaust is generally adequate. Eyewash stations. Showers.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety goggles or glasses or face shield required.

Skin and Body Protection Rubber or chemical resistant gloves are required. Chemical resistant shoes and/or apron recommended.

Respiratory Protection Not normally needed. In cases where large quantities are handled and dusts are generated, NIOSH approved respirators are recommended.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

Section 9 – Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State	Solid		
Appearance	Off white powder	**Odor**	Slight citrus
Color	Off white	**Odor Threshold**	Not determined

Property	**Values**	**Remarks • Method**
pH	Not determined	
Melting Point/Freezing Point	N/A	
Boiling Point/Boiling Range	N/A	
Flash Point	N/A	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	N/A	
Lower Flammability Limit	N/A	
Vapor Pressure	N/A	
Vapor Density	N/A	
Specific Gravity	Not available	
Water Solubility	Soluble	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	N/A	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

Section 10 – Stability and Reactivity

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to Avoid
Incompatible Materials. Moist, hot atmosphere.

Incompatible Materials
Zinc. Aluminum.

Hazardous Decomposition Products
Hydrogen.

Section 11 – Toxicological Information

Information on likely routes of exposure

Product information.

Eye Contact Causes severe eye damage.

Skin Contact Causes severe skin burns.

Inhalation Harmful if inhaled.

Ingestion Harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium metasilicate 6834-92-0	= 600 mg/kg (Rat)	-	-
Nonylphenol Ethoxylate 127087-87-0	= 1310 mg/kg (Rat)	-	-
		-	-
Sodium Tripolyphosphate Anhydrous 7758-29-4	=3100 mg/kg (Rat)	>7940 mg/kg (Rabbit)	-
Cellulose Gum 9004-32-4	= 27000 mg/kg (Rat)	> 2 g/kg (Rabbit)	> 5800 mg/m^3 (Rat) 4 h
Synthetic calcium silicate 1344-95-2	= 3400 mg/kg (Rat)	-	-
d-Limonene 5989-27-5	= 4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	-

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization May cause an allergic skin reaction.

Carcinogenicity Group 3 IARC components are "not classifiable as human carcinogens".

Chemical Name	ACGIH	IARC	NTP	OSHA
d-Limonene 5989-27-5		Group 3		

Legend

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

STOT - single exposure May cause respiratory irritation.

Numerical measures of toxicity

Not determined

Section 12 – Ecological Information

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium metasilicate 6834-92-0		210: 96 h Brachydanio rerio mg/L LC50 semi-static 210: 96 h Brachydanio rerio mg/L LC50		216: 96 h Daphnia magna mg/L EC50
Sodium Tripolyphosphate Anhydrous 7758-29-4		1650: 48 h Leuxiscus idus Mg/L LC0		
d-Limonene 5989-27-5		0.619 - 0.796: 96 h Pimephales promelas mg/L LC50 flow-through 35: 96 h Oncorhynchus mykiss mg/L LC50		

Persistence/Degradability
Not determined.

Bioaccumulation
Not determined.

Mobility
Not determined

Other Adverse Effects
Not determined

Section 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 Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
d-Limonene 5989-27-5	Toxic

Section 14 – Transport Information

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No	UN3262
Proper Shipping Name	Corrosive solid, basic, inorganic, n.o.s. (Disodium Trioxosilicate anhydrous)
Hazard Class	8
Packing Group	II

IATA

UN/ID No	UN3262
Proper Shipping Name	Corrosive solid, basic, inorganic, n.o.s. (Disodium trioxosilicate anhydrous)
Hazard Class	8
Packing Group	II

IMDG

UN/ID No	UN3262
Proper Shipping Name	Corrosive solid, basic, inorganic, n.o.s. (Disodium trioxosilicate anhydrous)
Hazard Class	8
Packing Group	II
Marine Pollutant	This material may meet the definition of a marine pollutant



Section 15 – Regulatory Information

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Sodium metasilicate	Present	X		Present		Present	X	Present	X	X
Synthetic calcium silicate	Present	X		Present		Present	X	Present	X	X
d-Limonene	Present	X		Present		Present	X	Present	X	X
Nonylphenol Ethoxylate	Present	X				Present	X	Present	X	X

Legend

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

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

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

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

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
Sodium Tripolyphosphate Anhydrous		X	X
Synthetic calcium silicate 1344-95-2	X	X	X

16. OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	Not determined	Not determined	Not determined	Not determined
HMIS	**Health Hazards**	**Flammability**	**Physical Hazards**	**Personal Protection**
	Not determined	Not determined	Not determined	Not determined

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Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a 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