

# Safety Data Sheet

Issued Date: November 17, 2015

Revision Date: November 17, 2015

Version 1

## 1. IDENTIFICATION

### Product Identifier

Product Name F-302 Nonphosphate Chlorine Free Automatic Dishwashing Detergent

### Other means of identification

Product Code F-302

### Recommended use of the chemical and restrictions on use

Recommended Use Dishwashing detergent for use in automatic dishwashing machines.

### Details of the supplier of the safety data sheet

Missouri Vocational Enterprises  
2727 Highway K  
Bonne Terre, MO 63628  
Phone: (573) 358-5516

### Emergency Telephone Number

INFOTRAC 1-800-535-5053 (North America)  
1-352-323-3500 (International)

## 2. HAZARDOUS IDENTIFICATION

Signal Word DANGER

Classification	Hazard Category
Skin - Corrosion/Irritation	1B
Serious Eye Damage/Irritation	1
Acute Toxicity – Oral	4

### Health Hazard Statement(s)

H272 – May intensify fire; oxidizer.

H290 – May be corrosive to metals.

H302 – Harmful if swallowed.

H314 – Causes severe skin burns and eye damage.

H318 – Causes serious eye damage.

H335 – May cause respiratory irritation.

### Hazard Pictogram(s)



### Hazard Ratings

	HMIS	NFPA
Health	2	2
Flammability	0	0
Reactivity	0	0
PPE	X	N/A

### Precautionary Statement(s)

P210 – Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.

P262 – Do not get in eyes, on skin, or on clothing.

P264 – Wash face, hands and any exposed skin thoroughly after handling.

P273 – Avoid release to the environment.

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

P301+P330+P331 – IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

P303+P361+P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P310 – Immediately call a POISON CENTER or doctor/physician.

P312 – Call a POISON CENTER or doctor/physician if you feel unwell.

P363 – Wash contaminated clothing before reuse.

#### Potential Health Effects

**Skin Contact** May cause skin corrosion/irritation/burns.

**Eye Contact** May cause eye damage.

**Inhalation** May cause respiratory irritation.

**Ingestion** May be harmful if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name/Pure Substance	CAS #	Weight-%
Metso Pentabead 20	10213-79-3	25-30
Sodium Carbonate, Anhydrous	497-19-8	25-30
Valfor 100 Zeolite NaA	1318-02-1	10-15
Sodium Sulfate, Anhydrous	Proprietary	10-15
Provox, Provox C	15630-89-4	10-15
Acusol 445ND	68479-09-4	1-5
Masodol 900	68439-46-3	1-5

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. FIRST-AID MEASURES

**General Advice** If you feel unwell, seek medical advice (show label where possible).

**Eye Contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

**Skin Contact** Wash off immediately with plenty of water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**Ingestion** Rinse mouth. Give lots of water. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

#### Most important symptoms and effects

**Symptoms** Prolonged contact may cause painful stinging or burning of eyes and lids, watering of eye, and irritation. Prolonged contact may even cause severe skin irritation or mild burn.

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media that is appropriate to local circumstances.

Unsuitable Extinguishing Media: Water jet.

#### Specific Hazards Arising from the Chemical

During fire, gases hazardous to health may be formed.

#### 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.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Use personal protective equipment as required. Avoid dust formation.
<b>Environmental precautions</b>	Prevent material from entering into soil, ditches, sewers, waterways, and/or groundwater.

### Methods and material for containment and clean up

<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for Clean up</b>	Shovel waste into a drum and label contents for disposal. Keep in suitable closed containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Use only in well ventilated areas. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Use personal protection recommended in Section 8.

### Conditions for safe storage, including any incompatibilities

<b>Storage Conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.
<b>Incompatible Materials</b>	See section 10 of this SDS.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
-	-	-	-

### Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits.

### Individual protection measures, such as personal protective equipment

Eye/Face Protection	Wear approved safety goggles.
Skin and Body Protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas.
General Hygiene Considerations	Do not eat, drink, or smoke when using this product. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

<b>Physical State</b>	Solid	<b>Odor</b>	Not Determined
<b>Color</b>	White	<b>Odor Threshold</b>	Not Determined

<u>Property</u>	<u>Values</u>	<u>Remarks - Method</u>
pH	10-12	1% solution
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	Not determined	

Flash Point	Not determined
Evaporation Rate	Not determined
Flammability (Solid, Gas)	Non-flammable
Upper Flammability Limits	Not determined
Lower Flammability Limits	Not determined
Vapor Pressure	Not determined
Vapor Density	Not determined
Specific Gravity	Not determined
Water Solubility	Complete
Solubility in other solvents	Not determined
Partition Coefficient	Not determined
Auto-ignition Temperature	Not determined
Decomposition Temperature	Not determined
Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined

## 10. STABILITY AND REACTIVITY

Reactivity	Not reactive under normal conditions.
Chemical Stability	Stable under recommended storage conditions.
Conditions to Avoid	Extreme heat and extreme humidity.
Incompatible materials	Strong acids.
Hazardous Decomposition Products	Carbon oxides, hydrogen, sodium oxides, oxidizing agents, organic materials, combustible materials,
Hazardous Polymerization	Not available.

## 11. TOXICOLOGICAL INFORMATION

### Mixture Toxicity

Toxicological data have not been determined specifically for this product.

## 12. ECOLOGICAL INFORMATION

### Ectotoxicity

Ecological studies have not been determined specifically for this product.

## 13. DISPOSAL CONSIDERATIONS

Disposal Instructions	Dispose of in accordance with local, regional, national, and international regulations.
Hazardous Waste Code	Not available.
Waste from residues / unused products	Reuse or recycle if possible. Dispose of in accordance with local, regional, national, and international regulations.
Contaminated Packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORT INFORMATION

**Note**

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

DOT I.D. Number	Not available.
DOT Proper Shipping Name	Not available.
DOT Hazard Classes:	
US DOT	Not available.
Road (ADR)	Not available.
Air (ICAO/IMDG)	Not available.
Sea (IMO/IMDG)	Not available.
Packing Group	Not available.
DOT Label	Not available.

## 15. REGULATORY INFORMATION

**U.S. Federal Regulations**

Contents of this SDS comply with OSHA Hazard Communication Standard CFR 1910.1200.

**OSHA Hazard Communication Standard (29 CFR 1910.1200)**

( X ) Hazardous ( ) Non- Hazardous

**SARA TITLE III**

Section 302/304  
Section 311/312  
Section 313

Extremely Hazardous Substances: None.  
(40CFR370) Hazardous Categories: Acute.  
Contains the following SARA 313 Toxic Release Chemicals: None.

**CERCLA****CERCLA Regulatory**

None based on information supplied.

**State Regulations****California Prop 65**

This product may contain the following ingredient(s) known to the state of California to cause cancer, birth defects or other reproductive harm: None based on the information supplied.

**Inventories**

Component	TSCA (United States)	DSL (Canada)	EINECS/ ELINCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Metso Pentabead 20 (10213-79-3)	X	X						X
Sodium Carbonate (497-19-8)	X	X	X	X	X	X	X	X
Valfor 100 Zeolite NaA (1318-02-1)	X	X						X
Sodium Sulfate (Proprietary)	X	X						
Masodol 900 (68439-46-3)	X	X	X	X	X	X	X	X

**16. OTHER INFORMATION****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 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.

Issue Date: November 17, 2015  
Revision Date: November 17, 2015  
Revision Number: 1  
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