

Issue Date 08-Aug-2011

Revision/Review Date: 26-Jul-2022

Version 1.0

1. IDENTIFICATION

Product Identifier

Product Name Maxim Best Dish All-Temp

Other Means of Identification

Product Code 323400

Recommended use of the Chemical and Restrictions on Use

Recommended Use Dishmachine Detergent Concentrate. For industrial and institutional use.

Details of the Supplier of the Safety Data Sheet

Midlab, Inc.
140 Private Brand Way
Athens, TN 37303

Emergency Telephone Number

Company Phone Number Phone: 1-423-337-3180
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Red

Physical State Liquid

Odor None

Classification

| | |
|-----------------------------------|---------------------------|
| Skin corrosion/irritation | Category 1 Sub-category B |
| Serious eye damage/eye irritation | Category 1 |
| Corrosive to Metals | Category 1 |

Signal Word

Danger

Hazard Statements

Causes severe skin burns and eye damage.
May be corrosive to metals.



Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray.
Wash face, hands, and any exposed skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
Keep only in original container.

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician.
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 CENTER or doctor/physician.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
IN CASE OF SPILL: Absorb spillage to prevent material damage.

Precautionary Statements - Storage

Store locked up.
Store in a corrosive resistant container with a resistant inner liner.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed.

Other Hazards

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | Weight-% |
|------------------------------|-------------|----------|
| Potassium Hydroxide | 1310-58-3 | 5-10 |
| Tetrapotassium Pyrophosphate | 7320-34-5 | 5-10 |
| Sodium Silicate | 1344-09-8 | 1-5 |
| Sodium Polyacrylate | Proprietary | 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

First Aid Measures

| | |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General Advice | Immediately call a POISON CENTER or doctor/physician. |
| Eye Contact | 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 CENTER or doctor/physician. Contact lenses should be discarded. |
| Skin Contact | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. |
| Inhalation | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician or poison control center immediately. |
| Ingestion | IF SWALLOWED: call a poison control center or physician immediately. Never give anything by mouth to an unconscious person. Rinse mouth. Drink plenty of water. Do not induce vomiting. |

Most Important Symptoms and Effects

| | |
|-----------------|------------------------------------------|
| Symptoms | Causes severe skin burns and eye damage. |
|-----------------|------------------------------------------|

Indication of any Immediate Medical Attention and Special Treatment Needed

| | |
|---------------------------|----------------------------------------------------------------------------------|
| Notes to Physician | May aggravate pre-existing skin disorders. Any lung condition may be aggravated. |
|---------------------------|----------------------------------------------------------------------------------|

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray (fog). Carbon dioxide (CO₂). Dry chemical. Foam.

Unsuitable Extinguishing Media

Not determined.

Specific Hazards Arising from the Chemical

Product is not flammable.

Hazardous Combustion Products

Normal products of combustion.

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

| | |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal Precautions | Use personal protection recommended in Section 8. |
| Environmental Precautions | Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13, Disposal Considerations, for additional information. |

Methods and Material for Containment and Cleaning Up

| | |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Methods for Containment | Prevent further leakage or spillage if safe to do so. For large spills, dike far ahead of liquid spill for later disposal. |
| Methods for Clean-Up | Contain and collect with an inert absorbent and place into an appropriate container for disposal. Dilute remaining residue with water. |

7. HANDLING AND STORAGE

Precautions for Safe Handling

| | |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on Safe Handling | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Use personal protection recommended in Section 8. Wash face, hands, and any exposed skin thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/spray. For Industrial or professional use only. |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Conditions for Safe Storage, including any Incompatibilities

| | |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage Conditions | Keep container tightly closed and store in a cool, dry, and well-ventilated place. Store locked up. Keep from freezing. Protect from excessive heat. Keep out of the reach of children. |
| Incompatible Materials | Acids. Oxidizing agents. Iron. Rust. Copper. Cobalt. Nickel. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|----------------------------------|------------------------------|----------------------------------------|------------------------------|
| Potassium Hydroxide 1310-58-3 | Ceiling: 2 mg/m ³ | (vacated) Ceiling: 2 mg/m ³ | Ceiling: 2 mg/m ³ |

Appropriate Engineering Controls

| | |
|-----------------------------|---------------------------------------------------------------------------------------------|
| Engineering Controls | Apply technical measures to comply with the occupational exposure limits. Eyewash stations. |
|-----------------------------|---------------------------------------------------------------------------------------------|

Individual Protection Measures, such as Personal Protective equipment

| | |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye/Face Protection | Wear goggles or chemical safety glasses. For Industrial or professional use only. |
| Skin and Body Protection | Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. |
| Respiratory Protection | No respiratory protection is necessary during normal use conditions. In the case of insufficient ventilation or if exposure limits are exceeded, use a suitable NIOSH/MSHA respiratory device. |

General Hygiene Considerations Wash contaminated clothing before reuse. Wash face, hands, and any exposed skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

| | | | |
|------------------------------|-----------------------|--------------------------------|----------------|
| Physical State | Liquid | Odor | None |
| Appearance | Clear | Odor Threshold | Not determined |
| Color | Red | | |
| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> | |
| pH | 13.5-14.0 | | |
| Melting Point/Freezing Point | ~ 0 °C / 32 °F | | |
| Boiling Point/Boiling Range | ~ 100 °C / 212 °F | | |
| Flash Point | None | Tag Closed Cup | |
| Evaporation Rate | Not determined | | |
| Flammability (Solid, Gas) | Liquid-not applicable | | |
| Upper Flammability Limits | Not determined | | |
| Lower Flammability Limit | Not determined | | |
| Vapor Pressure | Not determined | | |
| Vapor Density | Not determined | | |
| Specific Gravity | 1.16 | | |
| Water Solubility | Completely soluble | @ 25 °C (77 °F) | |
| Solubility in other solvents | Not determined | | |
| Partition Coefficient | Not determined | | |
| Autoignition Temperature | Not determined | | |
| Decomposition Temperature | Not determined | | |
| Kinematic Viscosity | Not determined | | |
| Dynamic Viscosity | Not determined | | |
| Explosive Properties | None known | | |
| Oxidizing Properties | Not determined | | |

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

Hazardous polymerization does not occur.

Conditions to Avoid

Elevated temperatures. Keep from freezing. Reacts with incompatible materials. Keep out of reach of children.

Incompatible Materials

Acids. Oxidizing agents. Iron. Rust. Copper. Cobalt. Nickel. Nitrogen compounds.

Hazardous Decomposition Products

Oxygen when exposed to copper, nickel, cobalt, iron, or iron compounds.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Eye Contact

Causes severe eye damage.

| | |
|---------------------|-------------------------------------------------------|
| Skin Contact | Causes severe skin burns. |
| Inhalation | Avoid breathing vapors or mists. |
| Ingestion | May be harmful if swallowed. Do not taste or swallow. |

Component Information

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-------------------------------------------|--------------------|-----------------------|-----------------|
| Potassium Hydroxide 1310-58-3 | = 214 mg/kg (Rat) | - | - |
| Sodium Silicate 1344-09-8 | = 1153 mg/kg (Rat) | > 4640 mg/kg (Rabbit) | - |
| Tetrapotassium Pyrophosphate 7320-34-5 | - | > 4640 mg/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

Carcinogenicity Not classifiable as a human carcinogen.

Chronic Toxicity Chronic exposure may cause liver, kidney and/or blood disorders.

Numerical Measures of Toxicity

Not determined

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Toxic to aquatic life with long lasting effects.

Component Information

| Chemical Name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|-------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------|
| Potassium Hydroxide 1310-58-3 | - | 80: 96 h <i>Gambusia affinis</i> mg/L LC50 static | - | - |
| Sodium Silicate 1344-09-8 | - | 301 - 478: 96 h <i>Lepomis macrochirus</i> mg/L LC50 3185: 96 h <i>Brachydanio rerio</i> mg/L LC50 semi-static | - | 216: 96 h <i>Daphnia magna</i> mg/L EC50 |
| Tetrapotassium Pyrophosphate 7320-34-5 | - | 100: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 | - | 100: 48 h water flea mg/L EC50 |

Persistence/Degradability

Not determined

Bioaccumulation

Not determined

Mobility

| Chemical Name | Partition Coefficient |
|----------------------------------|-----------------------|
| Potassium Hydroxide 1310-58-3 | 0.83 |

Other Adverse Effects

Not determined

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 |
|----------------------------------|-----------------------------------|
| Potassium Hydroxide 1310-58-3 | Toxic Corrosive |

14. TRANSPORT INFORMATION

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

DOT UN3266, Corrosive Liquid, Basic, Inorganic, NOS (Containing Potassium Hydroxide), 8, PG II

IATA

IMDG

15. REGULATORY INFORMATION

International Inventories

| | |
|-----------------------------------------|---------------------------------------|
| Canada – Domestic Substances List (DSL) | All ingredients are listed or exempt. |
| TSCA (Toxic Substances Control Act) | All ingredients are listed or exempt. |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

CERCLA

| Chemical Name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|----------------------------------|--------------------------|----------------|-------------------------------------------|
| Potassium Hydroxide 1310-58-3 | 1000 lb | | RQ 1000 lb final RQ RQ 454 kg final RQ |

SARA 311/312 Hazard Categories

| | |
|------------------------------|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | Yes |

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)

| Component | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|----------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Potassium Hydroxide 1310-58-3 | 1000 lb | | | X |

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

| Chemical Name | State List |
|---------------|------------|
| | |

| | |
|----------------------------------|------------|
| Potassium Hydroxide 1310-58-3 | MA, NJ, PA |
|----------------------------------|------------|

| | |
|---------------------------------------------------------|---------------------------------------------------|
| AZ – Arizona Ambient Air Quality Guidelines | IL – Illinois Toxic Air Contaminant- Carcinogenic |
| CT – Connecticut Hazardous Air Pollutants | MA – Massachusetts Right to Know List |
| CA – California Director’s List of Hazardous Substances | MN – Minnesota Hazardous Substances List |
| CAP65 – California Prop 65 | NJ – New Jersey Right to Know List |
| FL – Florida Substances List | PA – Pennsylvania Right to Know List |
| ID – Idaho Non-Carcinogen Toxic Air Pollutants | RI – Rhode Island Hazardous Substances List |

16. OTHER INFORMATION

| | | | | |
|--------------------|-----------------------|---------------------|-------------------------|----------------------------|
| <u>NFPA</u> | Health Hazards | Flammability | Instability | Special Hazards |
| | Not determined | Not determined | Not determined | Not determined |
| <u>HMIS</u> | Health Hazards | Flammability | Physical Hazards | Personal Protection |
| | 3 | 0 | 0 | Not determined |

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Revision Note Version 1.2

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.

Keep Out of Reach of Children. For Industrial and Institutional Use Only.

*Denotes changes from last version.

End of Safety Data Sheet