

# **Safety Data Sheet**

# **SECTION 1: Identification**

1.1 Product identifier

Product name Solid MetalStar Machine Dish Detergent

Product number 106

Brand Crown Chemical, Inc.

1.2 Other means of identification

Solid MetalStar Machine Dish Detergent

1.3 Recommended use of the chemical and restrictions on use

Machine dishwashing

1.4 Supplier's details

Name Crown Chemical, Inc. Address 4701 W. 136th. St.

Crestwood, Illinois 60418

U.S.A.

Telephone 708-371-6990 Fax 708-371-6992

email info@crown-chem.com

1.5 Emergency phone number(s)

800-535-5053

# **SECTION 2: Hazard identification**

# **General hazard statement**

Causes serious eye damage; Causes severe skin burns and eye damage; Harmful if swallowed

## 2.1 Classification of the substance or mixture

# GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)

- Eye damage/irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1A
- Acute toxicity, oral, Cat. 4

# 2.2 GHS label elements, including precautionary statements

**Pictogram** 





1. Corrosion; 2. Exclamation mark

Signal word Danger

**Hazard statement(s)** 

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

**Precautionary statement(s)** 

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash hands & skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER /doctor if you feel unwell.

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep 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/doctor for treatment advice.

P321 Specific treatment (see details on label).

P330 Rinse mouth.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents and container in accordance with all local, state, national and

international regulations.

# 2.3 Other hazards which do not result in classification

None identified

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Corrosive Mixture Components

# 1. Sodium metasilicate pentahydrate

Concentration 20 - 40 % (By Weight)

EC no. 229-912-9 CAS no. 6834-92-0 Index no. 014-010-00-8

- Specific target organ toxicity (single exposure), Cat. 3

- Skin corrosion/irritation, Cat. 1B

H314 Causes severe skin burns and eye damage

H335 May cause respiratory irritation

# Trade secret statement (OSHA 1910.1200(i))

The specific chemical identities and/or actual concentrations for one or more components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

# **SECTION 4: First-aid measures**

#### 4.1 Description of necessary first-aid measures

General advice Do not breathe dust or mists. Wash hands thoroughly after handling. Do not eat,

drink or smoke when using this product. Wear protective rubber gloves and chemical splash goggles or face shield when using this product. If inhalable

particles of dusts or mists may occur during use, wear NIOSH approved respiratory protection. Mix ONLY with water.

If inhaled Remove person to fresh air and keep comfortable for breathing. Call a Poison

Control Center or doctor for treatment advice.

In case of skin contact

Take off immediately all contaminated clothing. Rinse skin with water. Wash

contaminated clothing before reuse. Immediately call a Poison Control Center or

doctor for treatment advice.

In case of 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 for treatment advice.

If swallowed Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have

victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless

directed to do so by medical personnel. Never give anything by mouth to an

unconscious person.

Personal protective equipment for first-aid responders

Treat exposure symptomatically. In all cases where large quantities have been ingested or inhaled, contact a doctor or Poison Control Center immediately.

# 4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

# 4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available.

# **SECTION 5: Fire-fighting measures**

# 5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# 5.2 Specific hazards arising from the chemical

None known

## 5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

# **Further information**

Use water spray to cool unopened containers.

# **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Initiate spill containment procedures immediately using containment or absorbtion methods. Keep people away from area. Put on appropriate protective equipment (see Section 8).

# 6.2 Environmental precautions

Do not let product enter drains.

## 6.3 Methods and materials for containment and cleaning up

Do not allow spilled material to enter sewers, waterways or soil. Neutralize with water. Mop, sweep or otherwise collect spilled material and hold for disposal. Consult local government authorities for allowable disposal methods. After removal, rinse area completely with water to remove residue.

## Reference to other sections

For disposal see section 13.

# **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Avoid contact with eyes, skin or clothing. Avoid inhalation of dust or mists. Use in a well ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in a locked location inaccessible to small children. Keep container closed when not in use. Store in a well ventilated area between 60-100°F (15- 38°C).

## Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

# **SECTION 8: Exposure controls/personal protection**

# 8.2 Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

# 8.3 Individual protection measures, such as personal protective equipment (PPE)

# **Eye/face protection**

Wear chemical splash goggles or face shield when using this product.

# **Skin protection**

Wear protective rubber gloves and a long sleeved shirt to prevent contact.

#### **Body protection**

Wash thoroughly after use and before eating, smoking, or using the bathroom. Avoid contamination of clothing or shoes, and wash any contaminated items before reuse. If possible, avoid wearing contact lenses when using this product.

#### Respiratory protection

Wear a NIOSH respirator approved for corrosive dusts or mists.

## Thermal hazards

No data available.

# **Environmental exposure controls**

Do not let product enter drains.

# **SECTION 9: Physical and chemical properties**

# Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.) White Solid

Odor Characteristic

Odor threshold No data available. pH >11.5 (1% solution)

Melting point/freezing point

Initial boiling point and boiling range

Flash point

No data available.

No data available.

No data available.

Evaporation rate

Flammability (solid, gas)

No data available.

No data available.

No Mata available.

N/A

Upper/lower flammability limits

No data available.

Upper/lower explosive limits

N/A

Vapor pressure No data available. Vapor density No data available. Relative density  $>1.0 (H_20 = 1.0)$ 

Solubility(ies)

Partition coefficient: n-octanol/water

Auto-ignition temperature Decomposition temperature

Viscosity

Explosive properties Oxidizing properties 100% in 120°F Water No data available. No data available. No data available. N/A

No data available. No data available.

# Other safety information

No data available.

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Product is not reactive under normal storage and usage conditions. Mix this product ONLY with water.

# 10.2 Chemical stability

Product is stable under normal storage and usage conditions.

## 10.3 Possibility of hazardous reactions

No data available.

#### 10.4 Conditions to avoid

Heat, flames and sparks. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.

# 10.5 Incompatible materials

Acid, metals.

## 10.6 Hazardous decomposition products

None are expected under normal storage and usage conditions.

# **SECTION 11: Toxicological information**

# Information on toxicological effects

#### **Acute toxicity**

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

# Skin corrosion/irritation

Irritation, pain, redness, watering.

# Serious eye damage/irritation

Eve contact may cause irritation or pain, redness and watering.

## Respiratory or skin sensitization

Inhalation may cause coughing, choking and respiratory tract irritation. Ingestion may cause stomach and throat pain.

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH,NTP, or EPA classification

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

## Reproductive toxicity

No data available.

# Summary of evaluation of the CMR properties

No known significant effects or critical hazards.

# **STOT-single exposure**

No data available.

## **STOT-repeated exposure**

No data available.

# **Aspiration hazard**

No data available.

## **Additional information**

No data available.

# **SECTION 12: Ecological information**

# **Toxicity**

No specific data available for this mixture. Disodium Trioxosilicate is known to be moderately toxic to aquatic life.

## Persistence and degradability

No data available on product

## **Bioaccumulative potential**

No data available on product

# **Mobility in soil**

No data available.

# Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

# Other adverse effects

No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

## Disposal of the product

Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

# Disposal of contaminated packaging

Dispose of as unused product.

# Other disposal recommendations

Avoid disposal of this product. Use complete contents according to directions. Do not release contents into a municipal sewer except through normal dilution and usage. Do not release contents onto the ground or into any body of water. Dispose of empty container by offering for recycling if available, or into a landfill. Follow all applicable state and local regulations.

# **SECTION 14: Transport information**

DOT (US)

UN number: 3262

Class: 8 Packing group: III

Proper shipping name: UN 3262, Corrosive Solid, Basic, Inorganic, N.O.S., 8, PG III (Contains Disodium Trioxosilicate)

Reportable Quantity (RQ): None

**Note:** Certain package sizes of this product may qualify for exceptions to DOT's packaging, labeling and other requirements, and thus may have different DOT shipping names. For bulk shipments, see the shipping documents.

# **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations specific for the product in question

## **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## SARA 311/312 Hazards

Acute Health Hazard

## **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

## **Pennsylvania Right To Know Components**

Disodium metasilicate pentahydrate, CAS-No. 10213-79-3

# **New Jersey Right To Know Components**

Disodium metasilicate pentahydrate, CAS-No. 10213-79-3

# California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# **SECTION 16: Other information**

The information herein is believed to be correct, but is given without warranty or guaranty of any kind, express or implied. The hazards provided in this Safety Data Sheet apply to the product in its concentrated form, and may differ significantly after dilution.

#### 16.1 Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Crown Chemical, Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Crown Chemical, Inc. has been advised of the possibility of such damages.