

ACP-110 – Super Machine Chlorinated Machine Dish Powder

Date: 9/06/2024

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Super Machine Chlorinated Machine Dish Powder

Other Means of Identification

Product Code 110

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Machine dishwashing.

Details of the Supplier of the Safety Data Sheet

Manufacturer Address Arrow Chemical Products, Inc.
5933 W. KL Ave
Kalamazoo, MI 49009

Emergency Telephone Number

Company Phone Number 313-237-0277
Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral	Category 4
Skin Corrosion/Irritation	Category 1 Sub-category B
Serious Eye Damage/Eye Irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3

Signal Word

DANGER

Hazard Statements

Harmful if swallowed
Causes severe skin burns and eye damage
May cause respiratory irritation. May cause drowsiness or dizziness



Appearance: White powder

Physical State: Powder

Odor: Chlorine

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Do not breathe dust/fume/gas/mist/vapors/spray
 Do not taste or swallow.
 Wear protective gloves/protective clothing/eye protection/face protection
 Use only outdoors or in a well-ventilated area

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

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Sodium metasilicate	6834-92-0	30 - 40
Sodium Carbonate	497-19-8	20 - 40
Sodium Dichlorisocyanurate	51580-86-0	0 - 10

4. FIRST AID MEASURES

First Aid Measures

- General Advice** Provide this SDS to medical personnel for treatment.
- Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. Seek immediate medical attention/advice.
- Eye Contact** Flush material out immediately with large amounts of water for at least 15 minutes, holding eye lids apart to insure flushing of the entire surface. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get medical attention immediately.
- Ingestion** Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Drink 1-2 glasses of water. If vomiting occurs spontaneously, keep airway clear. Get medical attention immediately.
- Skin Contact** Immediately remove contaminated clothing and flush affected areas with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. Get medical attention immediately.

Most Important Symptoms and Effects, both Acute and Delayed

- Symptoms** Causes burns. Irritating to respiratory system. May cause permanent damage to eyes.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Exposure may aggravate medical conditions such as asthma, lung disease, and skin disorders. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Flood with copious amounts of water. DO NOT use ABC or other dry chemical extinguishers since there is the potential of a violent reaction.

Unsuitable Extinguishing Media Do not use ABC or other dry chemical fire extinguishers.

Specific Hazards Arising from the Chemical

Not determined.

Hazardous Combustion Products Unknown

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 Wear protective clothing as required. An approved dust mask should be worn if dust is generated during handling.

Methods and Material for Containment and Cleaning Up

Methods for Containment Prevent further leakage or spillage if safe to do so. Do not allow to enter drains, sewers or watercourses.

Methods for Cleaning Up Sweep up and collect spilled product and place it in a clean container with a plastic bag. Contaminated product must be destroyed. Rinse area with clean water and dry before permitting traffic.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Avoid generation of dust. Wash thoroughly after handling. Use personal protection as required. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Use only in well-ventilated areas.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Keep containers tightly closed in a dry, well-ventilated place. Keep locked up and out of reach of children. Protect against physical damage. Product must be kept dry. In case of high humidity or storage for an extended period of time, use plastic bags to enclose product containers. Do not allow moisture into the container.

Incompatible Materials Product attacks metals in general. It reacts with water, oxidant and reducing agents, acids, nitrogen products, ammonium salts, urea, amines, quaternary ammonium derivatives, peroxides, May react violently with acids and metals such as aluminum, tin, lead, and zinc especially in the presence of moisture.

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	-

Appropriate Engineering Controls

Engineering Controls Good general room ventilation should be adequate under normal conditions. Provide eye wash and showers.

Individual Protection Measures, such as Personal Protective Equipment

- Eye/Face Protection** Chemical safety goggles/face shield.
- Skin and Body Protection** Wear protective gloves and protective clothing. Rubber or PVC (gloves and boots).
- Respiratory Protection** No special equipment needed unless dust is generated. Then wear approved dust mask.
- General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Powder	Odor	Chlorine
Appearance	White powder	Odor Threshold	Not determined
Color	White	Remarks • Method	
Property	Values		
pH	Not available		
Melting Point/Freezing Point	Not available		
Boiling Point/Boiling Range	Not determined		
Flash Point	Not available		
Evaporation Rate	Not available		
Flammability (Solid, Gas)	Not determined		
Upper Flammability Limits	Not available		
Lower Flammability Limit	Not available		
Vapor Pressure	Not determined		
Vapor Density	Not determined		
Specific Gravity	Not available		
Water Solubility	Completely soluble		
Solubility in Other Solvents	Not determined		
Partition Coefficient	Not determined		
Auto ignition Temperature	Not determined		
Decomposition Temperature	Not determined		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not an explosive		
Oxidizing Properties	Not determined		
VOC Content (%)	Not determined		

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

This product is hygroscopic. Storage containers must remain tightly closed when not in use.

Conditions to Avoid

Humidity and temperatures over 40°C.

Incompatible Materials

Product attacks metals in general. It reacts with water, oxidant and reducing agents, acids, nitrogen products, ammonium salts, urea, amines, quaternary ammonium derivatives, peroxides, may react violently with acids and metals such as aluminum, tin, lead, and zinc especially in the presence of moisture.

Hazardous Decomposition Products

In association with above materials, product decomposes and gives off a great quantity of heat, chlorine, nitrogen trichloride, chlorine oxides with danger of explosion.

11. TOXICOLOGICAL INFORMATION**Information on Likely Routes of Exposure**

Inhalation	May cause irritation to the mucous membranes and upper respiratory tract.
Eye Contact	Causes severe eye damage.
Skin Contact	Causes severe skin burns.
Ingestion	Harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium metasilicate 6834-92-0	= 600 mg/kg (Rat)	-	-
Sodium Carbonate 497-19-8	800 mg/kg (Rat)	>2000 mg/kg (Rabbit)	2.30 mg/l 2h (Rat)

Information on Physical, Chemical and Toxicological Effects

Symptoms	Causes burns in contact with skin and eyes. Irritating to respiratory system. May cause permanent damage to eyes.
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Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
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12. ECOLOGICAL INFORMATION**Ecotoxicity**

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 Carbonate 497-19-8	EC50: 242 mg/l 5 days Algae	LC50: Lepomis macrochirus 300 mg/l 96 h		EC50; Daphnia magna 200 – 227 mg/l 48 h

Persistence and Degradability

This product is biodegradable

Bioaccumulation

Low potential for bio accumulation (Log Kow <4)

Mobility

Low potential for adsorption in soil.

Other Adverse Effects

The alkalinity of this product will have a local effect on ecosystems sensitive to changes in pH.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations. Do not discharge into drains or the environment.

Contaminated Packaging

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

14. TRANSPORT INFORMATION

Note

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

DOT

Not regulated

IATA

UN3253, Disodium trioxosilicate, 8, III

IMDG

UN3253, Disodium trioxosilicate, 8, III

15. REGULATORY INFORMATION

International Inventories

TSCA Listed

DSL Listed

NDSL Listed

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

US Federal Regulations

CERCLA Reportable Quantity

No components are listed.

SARA 313

No ingredients contain chemicals that require reporting under SARA Title III Section 313.

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium Dichlorisocyanurate 51580-86-0		X	X

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	2	1	1	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	1	0	B

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