

SAFETY DATA SHEET

ACP-112 – Chlorinated Machine Dishwashing Liquid

Date: 06/04/2024

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Product Name	Chlorinated Machine Dishwashing Liquid	
Other Means of Identification		
UN/ID No	UN1760	
Product Code	112	
Recommended Use of the Chemical and Restrictions on Use		
Recommended Use	Machine dishwashing, injector fed systems only	
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 Emergency Telephone	313-237-0277 INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)	

2. HAZARDS IDENTIFICATION

Classification

Skin Corrosion/Irritation	Category 1 Sub-category B
Serious Eye Damage/Eye Irritation	Category 1

Signal Word

DANGER

Hazard Statements

Harmful if swallowed Causes severe skin burns and eye damage



Appearance Clear liquid

Physical State Liquid

Odor Chlorine

Precautionary Statements - Prevention

Keep in original container. Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe fumes/mist/vapors/spray Wear protective gloves/protective clothing/eye protection/face protection

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:** Call a POISON CENTER or doctor/physician immediately for treatment advice.

Precautionary Statements - Storage

Store locked up and in original container.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Potassium hydroxide	7732-18-5	15 - 35
Sodium Tripolyphosphate	7758-29-4	10 - 15
Sodium hypochlorite	7681-52-9	0 - 10

The balance of ingredients are not hazardous by GHS and are being withheld as a trade secret.

4. FIRST AID MEASURES

First Aid Measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON 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 CENTER or doctor/physician.
Ingestion	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician for treatment advice.
Skin Contact	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Discard contaminated leather goods.

Most Important Symptoms and Effects, both Acute and Delayed

SymptomsSkin exposures: may cause burns, blisters, tissue destruction, drying or defatting of the
skin. Eye exposures may cause damage to internal contents of the eye, permanent visual
defects, and blindness and/or loss of eye. Inhalation: exposure to airborne material may
cause severe irritation to mucous membranes, and upper respiratory tract. Swallowing:
exposure by ingestion may cause severe and permanent damage.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Extinguish all nearby sources of ignition since flammable hydrogen gas will be liberated from contact with some metals. May react violently with many organic chemicals, especially nitrocarbons and chlorocarbons. Potassium hydroxide reacts with zinc, aluminum, tin, and other active metals liberating flammable hydrogen gas.

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 protective equipment as required.

Methods and Material for Containment and Cleaning Up

Methods for Containment	Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry sand or earth).
Methods for Cleaning Up	Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

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. Do not breathe dust/fume/gas/mist/vapors/spray. Wear appropriate personal protective equipment.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions	Store locked up and in original container. Store in a cool, dry place away from heat and incompatible materials. Keep out of the reach of children.
Incompatible Materials	Acids. Combustible material. Organic compounds such as leather and wool. Contact with metals may evolve flammable hydrogen gas.

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. Provide showers and eye wash stations in the work area.
Individual Protection Measures, su	ch as Personal Protective Equipment
Eye/Face Protection	Chemical safety goggles/faceshield.
Skin and Body Protection	Rubber gloves. Suitable protective clothing.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas.

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 Appearance Color	Liquid Clear to yellowish liquid Clear to pale yellow	Odor Odor Threshold	Chlorine Not determined
Property pH Melting Point/Freezing Point Boiling Point/Boiling Range Flash Point Evaporation Rate Upper Flammability Limits Lower Flammability Limit Specific Gravity Water Solubility	Values 13.0 – 14.0 Not applicable Not determined Not applicable <1 Not determined Not determined 1.26 100%	Remarks • Method	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions. Reacts with acids, giving off heat.

Chemical Stability

Stable under recommended storage conditions.

Conditions to Avoid

Mixing with acids or incompatible materials may cause splattering and release of large amounts of heat. Will react with some metals forming flammable hydrogen gas. Carbon monoxide may form upon contact with reducing agents.

Incompatible Materials

Acids. Combustible material. Organic compounds such as leather and wool. Contact with metals may evolve flammable hydrogen gas.

Hazardous Decomposition Products

Reactions with metals may produce hydrogen gas.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
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
Potassium hydroxide 1310-58-3	= 284 mg/kg (Rat)	-	-
Sodium hypochlorite 7681-52-9	= 8200 mg/kg(Rat)	> 10000 mg/kg (Rabbit)	-

Information on Physical, Chemical and Toxicological Effects

Symptoms of Exposure	This material may cause severe burns and permanent damage to any tissue with which it comes into contact. Signs and symptoms vary, and are dependent on the route of exposure, and the duration of exposure. Aspirating this material may cause signs and symptoms that are similar to those experienced as a result of breathing or inhaling this material. Skin exposure may cause severe burns, blisters, tissue destruction, drying or defatting of the skin.
Carcinogenicity	Not classified as a carcinogen per GHS criteria. Not classified by NTP, IARC or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Potassium hydroxide 1310-58-3		80: 96 h Gambusia affinis mg/L LC50 static		
Sodium hypochlorite 7681-52-9	0.095: 24 h Skeletonema costatum mg/L EC50	LC50 Pimephales promelas 0.06 - 0.11: mg/L LC96		EC50 Daphnia magna 2.1 mg/L 96 h

Persistence and Degradability

Not determined

Bioaccumulation

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.

14. TRANSPORT INFORMATION

<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
DOT UN/ID No Proper Shipping Name Hazard Class Packing Group IATA UN/ID No Proper Shipping Name Hazard Class Packing Group IMDG UN/ID No Proper Shipping Name Hazard Class Packing Group	UN1760 Corrosive liquid, n.o.s. (Potassium hydroxide, Sodium hypochlorite) 8 II UN1760 Corrosive liquid, n.o.s. (Potassium hydroxide, Sodium hypochlorite) 8 II UN1760 Corrosive liquid, n.o.s. (Potassium hydroxide, Sodium hypochlorite) 8 II

15. REGULATORY INFORMATION

International Inventories

TSCA	Listed
DSL	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

The following components are listed:

Chemical Name	CAS Number	CERCLA RQ
Sodium Hypochlorite	7681-52-9	100 lbs.
Potassium hydroxide	1310-58-3	1000 lbs.

SARA 313

No chemical (s) components of this product are subject to reporting levels established by SARA Title III, Section 313.

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Potassium hydroxide 1310-58-3	Х	X	Х
Sodium hypochlorite 7681-52-9	Х	X	Х

16. OTHER INFORMATION				
NFPA	Health Hazards	Flammability	Instability	
HMIS_	2 Health Hazards 2	0 Flammability 0	Reactivity	Personal Protection 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