



# Safety Data Sheet

Quip makes it safe. Simply and Sensibly.

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Revision Number: Rev 1

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

**Product Description:** CHLORDET

Product ID: CHLDT

Common Name: Potassium Hydroxide Mixture

Chemical Name: Chemical Mixture

Formula: Chemical Mixture

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Chlorinated Foaming Cleaner

Uses advised against Not Available

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

Company Quip Laboratories, Inc.

1500 Eastlawn Avenue

Wilmington, DE 19802

E-mail address [customerservice@quiplabs.com](mailto:customerservice@quiplabs.com)

### 1.4. Emergency telephone number

For information US call: 001-302-761-2600

Emergency Number CHEMTREC Tel. No.US:001-800-424-9300

## SECTION 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture**



Signal Word

Danger

**Classification (1999/45/EEC)**

**C;R35**

*For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16*

**2.2. Label elements**

**Hazard Statements**

H302 + EUH031 – Harmful if swallowed. Contact with acids liberates toxic gas

H314 – Causes severe skin burns and eye damage

**Precautionary Statements**

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

S23A - Do not breathe gas/fumes/vapour/spray.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical Advice.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show label Where possible).

S50A - Do not mix with other chemicals especially chlorine releasing bleaches as toxic gas will Be evolved.

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

P264 - Wash thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

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

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.

P321 - Specific treatment (see on this label).  
P301+P312+330+331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.  
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P363 - Wash contaminated clothing before reuse.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

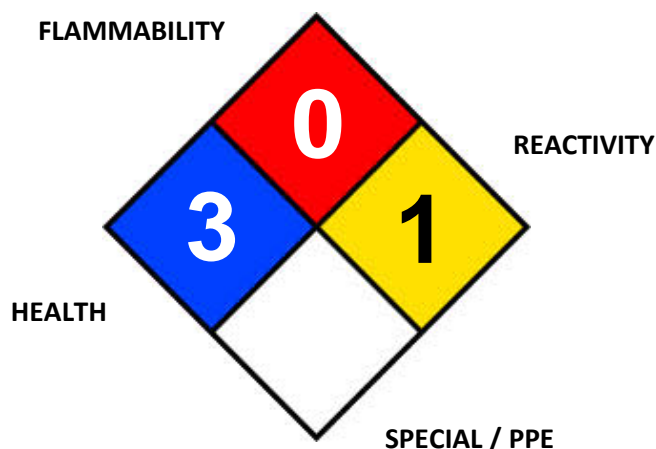
**Hazard description:**

**WHMIS-symbols:**

D2B - Toxic material causing other toxic effects  
E - Corrosive material

**2.3. Other hazards**

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB)



**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Component	Weight %	CAS No.
Sodium Hypochlorite	2.0 - 3.0	7681-52-9

Sodium Citrate, dihydrate	2.0 - 4.0	6132-04-3
Sodium Alkyl Sulfonate	1.0 - 5.0	85711-69-9
Potassium Hydroxide	4.0 - 6.0	1310-58-3
Water	To q.s.	7732-18-5

Reach Registration Number --

*For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16*

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.
<b>Ingestion</b>	Do not induce vomiting. Obtain medical attention.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.
<b>Protection of First-aiders</b>	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination

### 4.2. Most important symptoms and effects, both acute and delayed

No information available

### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

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**Suitable Extinguishing Media:**

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

**Extinguishing media which must not be used for safety reasons:**

No information available.

**5.2. Special hazards arising from the substance or mixture**

No information available.

**Hazardous Combustion Products:**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

**5.3. Advice for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protective equipment.

**6.2. Environmental precautions**

Should not be released into the environment.

**6.3. Methods and material for containment and cleaning up**

Collect spillage and collect in suitable container for disposal.

**6.4. Reference to other sections**

Refer to protective measures listed in Sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

**7.1. Precautions for safe handling**

Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep containers tightly closed in a dry, cool and well-ventilated place.

**7.3. Specific end use(s)**

Use in industrial applications

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Exposure limits**

List source(s):

**Biological limit values:**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Component	STD	TWA		STEL	Notes
Sodium Hypochlorite	WEL		2 mg/m <sup>3</sup>		
Potassium Hydroxide	WEL		2 mg/m <sup>3</sup>		

WEL = Workplace Exposure Limit

**Ingredient Comments**

STEL = Short Term Exposure

TWA = Time Weighted Average

**8.2. Exposure controls**

**Hygiene Measures:**

Handle in accordance with good industrial hygiene and safety practice

**Engineering Measures:**

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas

**Personal protective equipment**



<b>Eye Protection:</b>	Safety glasses with side-shields or face shield
<b>Hand Protection:</b>	Protective gloves. Polyvinyl chloride (PVC)
<b>Skin and body protection:</b>	Wear appropriate protective gloves and clothing to prevent skin exposure
<b>Respiratory Protection:</b>	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced
<b>Hygiene Measures:</b>	Handle in accordance with good industrial hygiene and safety practice
<b>Environmental exposure control :</b>	No information available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Clear
<b>Physical State</b>	Liquid
<b>Odor</b>	Acidic Odor
<b>Odor Threshold</b>	No data available
<b>pH (10% soln.)</b>	12.0 – 13.0
<b>Melting Point/Range</b>	No data available
<b>Softening Point</b>	No data available
<b>Boiling Point/Range</b>	Greater than 220°F
<b>Flash Point</b>	No data available
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available.

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<b>Explosion Limits</b>	No data available.
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	Not applicable
<b>Specific Gravity / Density</b>	1.12 - 1.14
<b>Bulk Density</b>	No data available
<b>Water Solubility</b>	Soluble
<b>Solubility in other solvents</b>	No information available.
<b>Partition Coefficient (n- octanol/water)</b>	No data available
<b>Auto ignition Temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive Properties Oxidizing Properties</b>	No data available

### 9.2. Other information

Molecular Formula	Not Available
Molecular Weight	Not Available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Chemical stability

Stable under normal conditions.

### 10.2. Possibility of hazardous reactions

<b>Hazardous Polymerization:</b>	Hazardous polymerization does not occur.
<b>Hazardous Reactions:</b>	None under normal processing.

### 10.3. Materials to avoid

Chlorine containing compounds

### 10.4. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

### 10.5. Hazardous decomposition products

None known



## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

(a) acute toxicity;

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium Hypochlorite	5800 mg/kg ( Mouse )		
Potassium Hydroxide	1365 mg/kg ( Rat )		

- (b) skin corrosion/irritation; Causes severe skin burns  
 (c) serious eye damage/irritation; Causes severe eye damage  
 (d) respiratory or skin sensitization;  
     Respiratory No data available  
     Skin No data available  
 (e) germ cell mutagenicity; Based on available data, the classification criteria are not met  
 (f) carcinogenicity; Based on available data, the classification criteria are not met  
     There are no known carcinogenic chemicals in this product  
 (g) reproductive toxicity; Based on available data, the classification criteria are not met  
 (h) STOT-single exposure; Based on available data, the classification criteria are not met  
 (i) STOT-repeated exposure; Based on available data, the classification criteria are not met  
     Target Organs Skin, Respiratory system, Eyes  
 (j) aspiration hazard; Not applicable

Other Adverse Effects See actual entry in RTECS for complete information The toxicological properties have not been fully investigated.

Symptoms / effects, both acute and delayed No information available.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecotoxicity effects

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Sodium Hypochlorite	Fish LC50: 0.07 – 5.9 mg/L/48h	N. Av.	N. Av.	N. Av.
Potassium Hydroxide	Mosquito Fish LC50: 80 ppm/24h	N. Av.	N. Av.	N. Av.

**12.2. Persistence and degradability**

**Persistence:**

Product is biodegradable  
Soluble in water, Persistence is unlikely, based on information available.

**12.3. Bioaccumulative potential**

Bioaccumulation is unlikely

**12.4. Mobility in soil**

The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility. Highly mobile in soils.

**12.5. Results of PBT and vPvB assessment**

Substance is not considered persistent, bioaccumulative And toxic (PBT) / very persistent and very Bioaccumulative (vPvB).

**12.6. Other adverse effects**

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

Persistent Organic Pollutant

This product does not contain any known or suspected substance

Ozone Depletion Potential

This product does not contain any known or suspected substance

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

Federal, state and local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation/treatment procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected. All waste materials should be reviewed to determine the applicable hazards (testing may be necessary).

**SECTION 14: TRANSPORT INFORMATION**

**14.1. UN number:**

NA1760

**14.2. Proper shipping name:**

COMPOUNDS, CLEANING LIQUID, (contains potassium hydroxide and sodium hypochlorite)

**14.3. Transport hazard class(es):**

Class 8: Corrosive substances

**14.4. Packing group:**

II

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**14.5. Environmental hazards** Environmentally Hazardous Substance/Marine Pollutant  
**14.6. Special precautions for user** EMS: F-A, S-B Tunnel Restriction Code: (E)  
**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable, packaged goods

### SECTION 15: REGULATORY INFORMATION

#### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

##### **US FEDERAL REGULATIONS:**

**TSCA:** In TSCA (Toxic Substances Control Act)

##### **SARA 311 and 312 HAZARD CATEGORIES:**

Immediate (Acute): Yes      Delayed (Chronic): No      Fire: No  
Reactivity: No      Sudden Release of Pressure: No

##### **SARA SECTION 313 NOTIFICATION:**

This product does not contain toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

##### **CAA 602 OZONE DEPLETING SUBSTANCES (ODS):**

This product neither contains nor is manufactured with an ozone depleting substance subject to the labeling requirements of the Clean Air Act Amendments 1990 and 40 CFR Part 82.

**VOLATILE ORGANIC COMPOUNDS (VOC):** Not Applicable.

##### **US STATE REGULATIONS:**

**VOLATILE ORGANIC COMPOUNDS (CARB):** Not Applicable.

**CANADIAN REGULATIONS:** N/A

**DSL/NDL:** N/A

**WHMIS CLASSIFICATION:** N/A

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.

Take note of Dir 94/33/EC on the protection of young people at work.

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Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

### **15.2. Chemical safety assessment**

A Chemical Safety Assessment/Report (CSA/CSR) has not been completed.

## SECTION 16: OTHER INFORMATION

### **Full text of R-phrases referred to under sections 2 and 3**

R36 - Irritating to eyes

### **Full text of H-Statements referred to under sections 2 and 3**

H319 - Causes serious eye irritation

### **Legend**

CAS - Chemical Abstracts Service

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Existing and Evaluated Chemical Substances

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

ENCS - Japan Existing and New Chemical Substances AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

ACGIH - American Conference of Industrial Hygiene

DNEL - Derived No Effect Level

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

PNEC - Predicted No Effect Concentration

RPE - Respiratory Protective Equipment

LD50 - Lethal Dose 50%

LC50 - Lethal Concentration 50%

NOEC - No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

EC50 - Effective Concentration 50%

POW - Partition coefficient Octanol: Water

vPvB - very Persistent, very Bioaccumulative

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## SAFETY DATA SHEET

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road  
IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code  
ICAO/IATA - International Civil Aviation Organization/International Air Transport Association  
MARPOL - International Convention for the Prevention of Pollution from Ships  
OECD - Organization for Economic Co-operation and Development      ATE - Acute Toxicity Estimate  
BCF - Bioconcentration factor  
VOC - Volatile Organic Compounds

### Key literature references and sources for data

Suppliers safety data sheet,  
Chemadvisor - LOLI,  
Merck index,  
RTECS

### Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.  
Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.  
First aid for chemical exposure, including the use of eye wash and safety showers.

The information in this Material Safety Data Sheet should be provided to all who use, handle, transport, or otherwise are exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and persons working with or handling this product. The information presented in this MSDS is premised upon proper handling and anticipated uses, and is for the material without chemical additions/alterations. Additionally, if this Material Safety Data Sheet is more than three years old, please contact this supplier at the phone number above Section 1 to make sure this sheet is current.

PREPARED BY: T. Hidell

DATE: 10/6/2014

Supercedes: 8/31/2013

The information and recommendations contained herein are based upon data believed to be correct. No warranty, expressed or implied, is made.