



# MARTRON INC. SAFETY DATA SHEET MARTRON 314

## Section 1: PRODUCT and COMPANY IDENTIFICATION

### Product Identifier

Product Name                    **MARTRON 314**  
Product Code                   **MFC-006028**

### Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

**Recommended Use**           Refer to the *Martron Inc.* Technical Data Bulletin for this product.  
For Industrial Use Only.

### Details of the Supplier

**Martron Inc.**  
1394-A Walkup Ave.  
Monroe, NC 28110  
704-289-1934.

### Website

[www.martroninc.com](http://www.martroninc.com)

### Emergency Number

**CHEMTREC 800-424-9300**

## Section 2: HAZARDS IDENTIFICATION

### Classification of the Substance or Mixture

Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1

Classification according to 67/548/EEC  
Full text of R-phrases: see Section 16

### Hazard Symbols

C - Corrosive

### R-Code(s)

C; R35

### Label Elements



### Signal Word

**DANGER**

### Hazard Statements

H314 - Causes severe skin burns and eye damage.

### Precautionary Statements - EU (§28, 1272/2008)

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

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

P321 - Specific treatment (see Section 4).

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P280 - Wear eye protection/face protection.  
 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.

**Precautionary Statements**

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
 P264 - Wash face, hands and any exposed skin thoroughly after handling.  
 P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P363 - Wash contaminated clothing before reuse.  
 P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P321 - Specific treatment (see supplemental first aid instructions on this label).  
 P405 - Store locked up.  
 P501 - Dispose of contents/container to an approved waste disposal plant.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 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.

**Other Hazards**

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

**Mixture**

**Chemical Nature**

Aqueous alkaline solution.

Chemical Name	EC No	CAS No	Weight - %	Classification According to Directive 67/548/EEC or 1999/45/EC	Classification According to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Potassium Hydroxide	Present	1310-58-3	<10	Xn; R22 C; R35	Acute Tox. 4 (H302) Skin Corr. 1A H314)	No data available

**Full Text of R-Phrases** See Section 16

**Full Text of H- and EUH-Phrases** See Section 16

**Section 4: FIRST AID MEASURES**

**Description of First Aid Measures**

**General Advice**

Immediate medical attention is required.

**Inhalation**

Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. Get medical attention.

**Skin Contact**

Immediately remove contaminated clothing and shoes. Flush skin thoroughly with cool water for at least 15 minutes. Wash skin with soap and water. Wash clothing. If irritation persists, get medical attention.

**Eye Contact**

Immediately flush eyes in a directed stream of water for at least 15 minutes while lifting the upper and lower

eyelids intermittently to ensure complete irrigation. Get medical attention immediately.

**Ingestion**

If conscious and alert, rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Self-Protection of the First Aider**

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

**Most Important Symptoms and Effects, Both Acute and Delayed Symptoms**

Causes eye irritation and burning. Causes skin irritation. Inhalation irritation and coughing. Will cause severe skin burns and eye burns.

**Indication of Any Immediate Medical Attention and Special Treatment Needed****Note to Physicians**

Product is a corrosive material. Prolonged dilution with water is required. Neutralization of eye burns is absolutely contraindicated; for skin, 2% acetic acid has been recommended, but washing with water is effective. Ingestion requires milk or water dilution, consideration of esophagoscopy and management for possible esophageal stricture.

**Section 5: FIREFIGHTING MEASURES****Extinguishing Media****Suitable Extinguishing Media**

Use extinguishing material suitable for surrounding fire. Water spray, foam, dry chemical or carbon dioxide.

**Unsuitable Extinguishing Media**

No information available.

**Special Hazards Arising from the Substance or Mixture**

Contact with active metals may produce flammable hydrogen gas. Keep product and empty container away from heat and sources of ignition. Direct contact with water can generate heat. If involved in a fire, product may generate irritating and toxic gases.

**Advice for Firefighters**

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece when fighting chemical fires. Move containers from fire area if it can be done without risk.

**Section 6: ACCIDENTAL RELEASE MEASURES****Personal Precautions, Protective Equipment and Emergency Procedures****Personal Precautions**

Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

**For Emergency Responders**

Use personal protection recommended in Section 8.

**Environmental Precautions**

Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent product from entering drains.

**Methods and Material for Containment and Cleanup****Methods for Containment**

Prevent entry into waterways, sewers, basements or confined areas. Prevent further leakage or spillage if safe to do so.

**Methods for Cleanup**

Ventilate area. Wear protective equipment. Absorb spill with inert absorbent and place in a DOT-approved waste container. Prevent runoff from entering surface water. Comply with all regulations on spill reporting.

**Reference to Other Sections****Other Information**

See Section 12: Ecological Information.

## Section 7: HANDLING and STORAGE

**Precautions for Safe Handling****Advice on Safe Handling**

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Use only with adequate ventilation. Add product slowly to avoid splashing. If product is added too rapidly, or without stirring, and becomes concentrated at bottom of mixing vessel, excessive heat may be generated, resulting in dangerous boiling and possible violent eruption of solution.

**General Hygiene Considerations**

Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

**Conditions for Safe Storage, Including Any Incompatibilities****Storage Conditions**

Store indoors in a cool dry area. Keep container closed. Keep in properly labeled containers.

**Specific End Use(s)****Risk Management Measures**

The information required is contained in this Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines**

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

*ACGIH TLV Threshold Limit Value.*

*OSHA PEL Permissible Exposure Limit.*

*NIOSH IDLH Immediately Dangerous to Life or Health.*

**Exposure Guidelines**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir, 1992).

**Engineering Controls**

Showers. Eyewash stations. A system of local and/or general exhaust is recommended to keep employee exposures below the airborne exposure limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

**Personal Protective Equipment (PPE)****Eye/Face Protection**

Tight sealing safety goggles. If a splashing hazard exists, a face shield is recommended. It is generally recognized that contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury.

**Skin Protection**

Wear chemical resistant gloves such as butyl rubber, natural rubber, neoprene or nitrile. Suitable protective clothing. Protective shoes or boots.

**Respiratory Protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection

should be worn. Respiratory protection must be provided in accordance with current local regulations.

#### General Hygiene Considerations

Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

### Section 9: PHYSICAL and CHEMICAL PROPERTIES

#### Information on Basic Physical and Chemical Properties

Physical State	Liquid
Appearance	Clear, slight yellow
Odor	Slight
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	> 12	
Melting Point/Freezing Point	Not established	
Boiling Point/Boiling Range	> 212°F	
Flash Point	Not applicable	
Evaporation Rate	Not established	
Flammability (solid, gas)	Not applicable	
Flammability Limits in Air		
Upper Flammability Limit	Not applicable	
Lower Flammability Limit	Not Applicable	
Vapor Pressure	Not established	
Vapor Density	Not established	
Specific Gravity	1.31 - 1.38	
Water Solubility	Completely Soluble	
Solubility(ies)	No information available	
Partition Coefficient (n-octanol/water)	Not applicable	
Auto-Ignition Temperature	Not Applicable	
Decomposition Temperature	Not established	
Kinematic Viscosity	No information available	
Dynamic Viscosity	No information available	
<u>Other Information</u>		
VOC Content (%)	Not applicable	

### Section 10: STABILITY and REACTIVITY

#### Reactivity

Stable at normal temperatures and pressure.

#### Chemical Stability

Stable under normal conditions.

#### Possibility of Hazardous Reactions

##### Hazardous Polymerization

Hazardous polymerization does not occur.

##### Possibility of Hazardous Reactions

None under normal processing.

#### Conditions to Avoid

Avoid storage with incompatible materials, freezing temperatures and excessive heat.

#### Incompatible Materials

Strong oxidizers, acids, active metals, leather, wool, organic halogen compounds and organic nitro compounds.

**Hazardous Decomposition Products**

Thermal decomposition may generate. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Smoke and fumes.

## Section 11: TOXICOLOGICAL INFORMATION

**Acute Toxicity****Product Information****Inhalation**

Airborne concentrations of dust, mist or spray of this product may cause damage to the upper respiratory tract and lung tissue proper which could produce chemical pneumonia, depending upon severity of exposure.

**Eye Contact**

This product is destructive to eye tissues on contact. Contact with eyes will cause severe burns and potential permanent damage to the eyes.

**Skin Contact**

Mists and liquid are corrosive to the skin. Liquid and mists will burn the skin. Prolonged liquid contact will burn or destroy surrounding tissue.

**Ingestion**

Can cause severe burns and complete tissue perforation of mucous membranes of the mouth, throat, esophagus and stomach.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium Hydroxide	214 mg/kg (Rat)		

**Chronic Toxicity**

Chronic exposure may result in primary skin dermatitis, inhalation of dust or mist may produce varying degrees of irritation or damage to the affected tissues and an increased susceptibility to respiratory illness.

**Target Organ Effects**

Eyes, Skin, Respiratory system

## Section 12: ECOLOGICAL INFORMATION

**Toxicity**

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Potassium Hydroxide		80: 96 h Gambusia affinis mg/L LC50 static	

**Persistence and Degradability**

No information available.

**Bio-Accumulative Potential**

Chemical Name	Partition Coefficient
Potassium Hydroxide	0.83

**Mobility in Soil**

No information available.

**Results of PBT and vPvB Assessment**

No information available.

**Other Adverse Effects**

No information available

**Section 13: DISPOSAL CONSIDERATIONS****Waste Treatment Methods****Waste from Residues/Unused Products**

Consult appropriate federal, state and local regulatory agencies to ascertain proper disposal procedures. Do not discharge into waterways or sewer systems. Disposal will depend on the nature of waste material.

**Contaminated Packaging**

Since empty containers retain product residues, all labeled hazardous precautions must be observed. Do not repackage product. Do not reuse container.

**Waste Codes/Waste Designations According to EWC/AVV**

Waste codes should be assigned by the user based on the application for which the product was used.

**Section 14: TRANSPORT INFORMATION****DOT (US)**

<b>Proper Shipping Name</b>	Corrosive liquid, basic, inorganic, N.O.S., (Potassium Hydroxide)
<b>Hazard Class</b>	8
<b>UN/ID Number</b>	UN3266
<b>Packing Group</b>	PG II
<b>Marine Pollutant</b>	No
<b>Emergency Response Guide No.</b>	154

**IMDG**

<b>UN/ID Number</b>	UN3266
<b>Proper Shipping Name</b>	Corrosive liquid, basic, inorganic, N.O.S., (Potassium Hydroxide)
<b>Hazard Class</b>	8
<b>Packing Group</b>	PG II
<b>Marine Pollutant</b>	No

**IATA**

<b>UN/ID Number</b>	UN3266
<b>Proper Shipping Name</b>	Corrosive liquid, basic, inorganic, N.O.S., (Potassium Hydroxide)
<b>Hazard Class</b>	8
<b>Packing Group</b>	PG II

**Section 15: REGULATORY INFORMATION****International Inventories**

All of the components in this product are on or exempt from the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Japan (ENCS), China (IECSC), Korea (ECL), Philippines (PICCS), Australia (AICS)

**International Inventory 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

**AICS** - Australian Inventory of Chemical Substances

**US Federal Regulations**

**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

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
Potassium Hydroxide	1000 lb			X

**CAA (Clean Air Act), Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act.

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

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

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**US State Right-to-Know Regulations**

Chemical Name	Massachusetts	New Jersey	Pennsylvania
Potassium Hydroxide	X	X	X

**International Regulations**

**Mexico - Grade**

No information available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the Safety Data Sheet (SDS) contains all the information required by the CPR.

**Section 16: OTHER INFORMATION**

**Full Text of R-Phrases Referred to Under Sections 2 and 3**

R35 - Causes severe burns  
R22 - Harmful if swallowed

**Full Text of H-Statements Referred to Under Sections 2 and 3**

H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage



**Issue Date**

08-Oct-2014

**Revision Date**

Not Applicable

**Revision Notes**

Not Applicable.

**This Safety Data Sheet (SDS) complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

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