

Issue Date: 06-Jul-2016

Revision Date: 25-Feb-2019

Version: 02

## 1. IDENTIFICATION

### Product Identifier

**Product Name** APW-60

### Other means of identification

**SDS #**  
 Item# H-7325

### Recommended use of the chemical and restrictions on use

**Recommended Use** Cleaner / degreaser.

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

**Supplier Address**  
 Ashburn Chemical Technologies  
 7403 Wright Rd  
 Houston, TX 77041

### Emergency Telephone Number

**Company Phone Number** 832-399-1000  
**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)  
 1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Clear, yellow tint to yellow

**Physical State** Liquid

**Odor** Mild

### Classification

The classification and labeling information in this Safety Data Sheet should be viewed as provisional, as the ingredient's percentages are kept as a trade secret.

Skin corrosion	Category 1
Serious eye damage / eye irritation	Category 1
Corrosive to metals	Category 1
Acute Toxicity-Oral	Category 4



### Signal Word

**DANGER**

### Hazard Statements

Causes severe skin burns and eye damage  
 Corrosive to metals  
 Harmful if swallowed

Do not breathe dust/fume/gas/mist/vapors/spray  
Wash face, hands and any exposed skin thoroughly after handling  
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  
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.  
IF SWALLOWED: rinse mouth. Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up  
Store in corrosive resistant stainless steel container with a resistant inner liner.

**Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other Hazards**

Harmful to aquatic life with long lasting effects.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%
Sodium Hydroxide	1310-73-2	5-20
Surfactant Blend	Propriety	10-20
Potassium Hydroxide	1310-58-3	10-40
Tetrasodium EDTA	64-02-8	1-5

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

**4. FIRST-AID MEASURES****First Aid Measures**

<b>General Advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
<b>Eye Contact</b>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
<b>Skin Contact</b>	Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. If skin irritation persists, call a physician.
<b>Inhalation</b>	Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.
<b>Ingestion</b>	Do not induce vomiting without medical advice. Seek immediate medical attention/advice.

**Most important symptoms and effects**

<b>Symptoms</b>	Severe eye damage, skin burns, digestive tract burns. Upper respiratory tract irritation. Mucus membrane irritation. See SECTION 11 for symptoms.
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**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

Treat symptomatically as a corrosive substance.

**5. FIRE-FIGHTING MEASURES****Suitable/Unsuitable  
Extinguishing Media**Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.  
Do not use straight stream.**Specific Hazards Arising  
from the Chemical**

During fire gases hazardous to health may be formed.

**Hazardous Combustion Products**

Oxides of carbon and nitrogen compounds.

**Protective equipment and precautions for firefighters**

Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus(SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal Precautions**Avoid contact with skin or eyes.  
Avoid breathing dust/fumes/gas/mist/vapors/spray.  
Wear protective clothing as described in Section 8 of this safety data sheet.**Environmental Precautions**Prevent entry into waterways, rivers, lakes, drains, surface water, or ground water.  
Prevent further leakage or spillage if safe to do so.  
See SECTION 12 for Ecological Information**Methods and material for containment and cleaning up****Methods for Containment**

Prevent further leakage or spillage if safe to do so. Absorb or cover with dry earth, sand or other non-combustible material.

**Methods for Clean-Up**

Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS. Contain large spills and pump into a suitable tank for disposal. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

**7. HANDLING AND STORAGE****Advice on Safe Handling**Handle in accordance with good industrial hygiene and safety practice.  
Wear appropriate personal protective equipment.  
Avoid breathing fumes, vapors, mists, spray.  
Wash face, hands, and any exposed skin thoroughly after handling.  
Do not mix with other chemicals.  
See SECTION 8 for Personal Protection.  
See SECTION 2 for Precaution Statements.**Storage Conditions**

Keep container tightly closed and store in a cool, dry and well-ventilated place. Do not store in open or unlabeled containers. Storage temperature &gt; 40°F. Store locked up.

**Incompatible Materials**Strong Acids. Oxidizing Agents. Organic materials.  
Some alkali sensitive metals / alloys (aluminum, phosphorus, Zinc)

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium Hydroxide 1310-58-3	TWA: ceiling 2 mg/m <sup>3</sup>	TWA: Ceiling 2 mg/m <sup>3</sup>	Ceiling 2 mg/m <sup>3</sup>
Sodium Hydroxide 1310-73-2	TWA: Ceiling 2 mg/m <sup>3</sup> Table Z-1 Limits for Air Contaminants	TWA: 2 mg/m <sup>3</sup> (vacated) Ceiling: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>

### Appropriate engineering controls

**Engineering Controls**                      Ventilation system. Eye wash fountain and quick-drench facilities in work area.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection**                      Wear tightly fitting safety goggles or face shield.

**Skin and Body Protection**                      Wear chemical resistant clothing and gloves.

**Respiratory Protection**                      Ensure adequate ventilation, especially in confined areas.

**General Hygiene Considerations**                      Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing and launder before reuse. If needed, take first aid action shown on section 4 of this SDS.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Odor</b>	Mild
<b>Appearance</b>	Clear	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Light Yellow		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
pH	14.88	@ 3:1	
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	100 °C / 212 °F		
Flash Point	Not flammable		
Evaporation Rate	< 1.0	(butyl acetate = 1)	
Flammability (Solid, Gas)	Not determined		
Upper Flammability Limits	Not determined		
Lower Flammability Limit	Not determined		
Vapor Pressure	> 1.0	@68° F(20°C)	
Vapor Density	> 1.0	(Air=1)	
Specific Gravity	1.405	(1=Water)	
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 determined		
Oxidizing Properties	Not determined		
VOC Content (%)	Not determined		

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Not reactive under normal conditions.
<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Conditions to Avoid</b>	Incompatible Materials. Warning! Do not mix or use together with other products.
<b>Incompatible Materials</b>	Strong Acids. Oxidizing Agents. Organic materials. Some alkali sensitive metals / alloys (aluminum, phosphorus, Zinc)
<b>Hazardous Decomposition Products</b>	Thermal decomposition and combustion are not expected to occur except under extreme conditions.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Eye Contact</b>	Causes severe eye damage.
<b>Skin Contact</b>	Causes severe skin burns.
<b>Inhalation</b>	May cause irritation to the mucous membranes and upper respiratory tract.
<b>Ingestion</b>	Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Tetrasodium EDTA 64-02-8	= 10 g/kg ( Rat )	4000 mg/kg (rat)	-
Sodium Hydroxide 1310-73-2	140 mg/kg ( Rat )	1350 mg/kg ( Rabbit )	-
Potassium Hydroxide 1310-58-3	333 mg/kg (Rat)	-	Severe skin irritation – 24 hr (rabbit)

### Information on physical, chemical and toxicological effects

<b>Symptoms</b>	Burning pain and severe corrosive skin damage. Cause severe eye damage. Symptom may include stinging, tearing, redness, swelling, blurred vision. Permanent eye damage including blindness could result.
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### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Carcinogenicity</b>	Carcinogenic potential is unknown.
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<b><u>Numerical measures of toxicity</u></b>	Not determined
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## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Harmful to aquatic life with long lasting effects.
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### **Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Tetrasodium EDTA 64-02-8	1.01: 72 h Desmodesmus subspicatus mg/L EC50	41: 96 h Lepomis macrochirus mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static		610: 24 h Daphnia magna mg/L EC50
Sodium Hydroxide 1310-73-2		250: 96 h Pimephales promelas mg/L LC50 estimated 125: 96 Gambusia affinis (mosquito fish) mg/L LC50		69.18: 24 h Daphnia magna mg/L EC50 34.59 – 47.13: 48 h Water flea mg/L EC50
Potassium Hydroxide 1310-58-3		80: 96 Gambusia affinis (mosquito fish) mg/L LC50 50-165 : 96 Fresh water fish (mg/L LC50		

**Persistence/Degradability** Biodegradation: Expected to be slowly biodegradable. Natural carbon dioxide will slowly neutralize this material.

**Bioaccumulation** Not determined

**Mobility** Not determined

**Other Adverse Effects** Not determined

### 13. DISPOSAL CONSIDERATIONS

**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.

**California Hazardous Waste Status**

Chemical Name	California Hazardous Waste Status
Sodium hydroxide 1310-73-2	Toxic Corrosive
Potassium hydroxide, Caustic potash 1310-58-3	Toxic Corrosive

### 14. TRANSPORT INFORMATION

#### DOT

UN number: 3266 Class:8 Packing Group: II  
 Proper Shipping Name: Corrosive liquid, basic, inorganic, n.o.s (Potassium hydroxide, Sodium hydroxide)  
 Special Provisions: 386, B2, IB2, T11, TP2, TP27  
 Packaging: 202 Exceptions: 242 Non-Bulk: 1L Bulk: 30L Stowage Category: B  
 Reportable Quantity(RQ) = 1000 lbs

#### IMDG

UN number: 3266 Class:8 Packing Group: II  
 Proper Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S (POTASSIUM HYDROXIDE, SODIUM HYDROXIDE)

#### IATA

UN number: 3266 Class:8 Packing Group: II  
 Proper Shipping Name: Corrosive liquid, basic, inorganic, n.o.s (Potassium hydroxide, Sodium hydroxide)

DOT



IATA/IMDG



## 15. REGULATORY INFORMATION

### International Inventories

The ingredients of this product are compliant with the following chemical inventory Requirements or exemptions.

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Potassium Hydroxide 1310-58-3	X	X	-	X	-	X	X	X	X	X
Sodium Hydroxide 1310-73-2	X	-	X	-	X	X	X	X	X	X

### 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

#### CERCLA

Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium hydroxide 1310-73-2	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
Potassium Hydroxide 1310-58-3	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

#### SARA 311/312 Hazard Categories

Acute Health Hazard. Chronic Health Hazard

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### U.S. State Right-to-Know Regulations

This product contains the following chemicals regulated in the state listed below

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Potassium Hydroxide 1310-58-3	X	X	X
Sodium Hydroxide 1310-73-2	X	X	X

**16. OTHER INFORMATION****NFPA****Health Hazards****Flammability****Instability****Special Hazards**

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**HMIS****Health Hazards****Flammability****Physical Hazards****Personal Protection**

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**Issue Date:**

06-Jul-2016

**Revision Date:**

25-Feb-2019

**Revision Note:**

Updated SDS to match new formulation.

**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**