

SAFETY DATA SHEET

APOLLO 91

Page: 1

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1. Product and Company Identification

Product Code: 00005
Product Name: APOLLO 91
Trade Name: ALL PURPOSE CLEANER
Company Name: Apollo Chemical and Equipment Co. L.L.C. **Phone Number:**
6647 N.E. 47th (503)249-8455
Portland, OR 97218
Emergency Contact: INFOTRAX
1-800-535-5053

2. Hazards Identification

Flammable Liquids, Category 4
Acute Toxicity: Oral, Category 4
Acute Toxicity: Inhalation, Category 4
Acute Toxicity: Skin, Category 4
Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2A
Serious Eye Damage/Eye Irritation, Category 2
Specific Target Organ Toxicity (single exposure), Category 3
Skin Corrosion/Irritation, Category 1A
Skin Corrosion/Irritation, Category 1B
Skin Corrosion/Irritation, Category 1C
Serious Eye Damage/Eye Irritation, Category 1
Aquatic Toxicity (Acute), Category 2
Aquatic Toxicity (Chronic), Category 3
Corrosive To Metals, Category 1
Aquatic Toxicity (Acute), Category 3



GHS Signal Word: Danger

GHS Hazard Phrases:

H227 - Combustible liquid.
H290 - May be corrosive to metals.
H302 - Harmful if swallowed.
H312 - Harmful in contact with skin.
H314 - Causes severe skin burns and eye damage.
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H335 - May cause respiratory irritation.
H401 - Toxic to aquatic life.
H402 - Harmful to aquatic life.
H412 - Harmful to aquatic life with long lasting effects.

GHS Precaution Phrases:

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P234 - Keep only in original container.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling.

SAFETY DATA SHEET

APOLLO 91

Page: 2
Printed: 11/04/2016
Revision: 11/04/2016

GHS Response Phrases:	<p>P270 - Do not eat, drink or smoke when using this product.</p> <p>P271 - Use only outdoors or in a well-ventilated area.</p> <p>P273 - Avoid release to the environment - if this is not the intended use.</p> <p>P280 - Wear protective gloves/clothing and eye/face protection as specified by the manufacturer/supplier or the competent authority.</p> <p>P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P302+352 - IF ON SKIN: Wash with plenty of soap and water.</p> <p>P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 - Immediately call a POISON CENTER or doctor/physician.</p> <p>P321 - Specific treatment (see ... on this label) ... reference to supplemental first aid instruction - if immediate administration of antidote is required.</p> <p>P330 - Rinse mouth.</p> <p>P332+313 - If skin irritation occurs, get medical advice/attention.</p> <p>P337+313 - If eye irritation persists, get medical advice/attention.</p> <p>P362 - Take off contaminated clothing and wash before re-use.</p> <p>P363 - Wash contaminated clothing before reuse.</p> <p>P390 - Absorb spillage to prevent material damage.</p>
GHS Storage and Disposal Phrases:	<p>P403+235 - Store in cool/well-ventilated place.</p> <p>P405 - Store locked up.</p> <p>P501 - Dispose of contents/container to ... (in accordance with local/regional/national/international regulation).</p>
Potential Health Effects (Acute and Chronic):	Hazards not otherwise classified (HNOC) or not covered by GHS. Hazards not otherwise classified (HNOC) or not covered by GHS -none.
Inhalation:	May be harmful if inhaled.
Skin Contact:	May be harmful if absorbed through the skin. Causes skin burns.
Eye Contact:	Causes eye burns.
Ingestion:	Harmful if swallowed. Causes burns.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	
111-76-2	Ethanol, 2-Butoxy-	2.0 -6.0 %	
7758-29-4	Sodium phosphate, Tribasic	1.0 -3.0 %	
NA	(Trade Secret)	1.0 -3.0 %	
141-43-5	Ethanol, 2-Amino-	1.0 -3.0 %	
NA	(Trade Secret)	1.0 -3.0 %	
1310-73-2	Sodium hydroxide	0.5 -1.0 %	

SAFETY DATA SHEET

APOLLO 91

Page: 3

Printed: 11/04/2016

Revision: 11/04/2016

4. First Aid Measures

Emergency and First Aid Procedures:	Skin Disorders Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
In Case of Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Skin Disorders If not breathing give artificial respiration.
In Case of Skin Contact:	Wash off with soap and plenty of water. Skin Disorders Take off contaminated clothing and shoes immediately.
In Case of Eye Contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Flush eyes with water as a precaution. Continue rinsing eyes during transport to hospital.
In Case of Ingestion:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Skin Disorders
Signs and Symptoms Of Exposure:	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 burning sensation, Cough, Wheezing, Laryngitis, Shortness of breath.
Indication of any immediate medical attention and special treatment needed:	No data available.
Note to Physician:	Skin Disorders Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

5. Fire Fighting Measures

Flash Pt:	> 67.00 C (152.6 F) Method Used: Estimate
Explosive Limits:	LEL: No data. UEL: No data.
Autoignition Pt:	> 230.00 C (446.0 F)
Suitable Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Fire Fighting Instructions:	Wear self contained breathing apparatus for fire fighting if necessary. Further information: No data available. The product itself does not burn.
Flammable Properties and Hazards:	oxides of phosphorus, Carbon oxides.
Hazardous Combustion Products:	No data available.

SAFETY DATA SHEET

APOLLO 91

Page: 4
Printed: 11/04/2016
Revision: 11/04/2016

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. NON KNOWN. Vapors can accumulate in low areas. For personal protection see section 8. Avoid dust formation. Non Required under normal use. Evacuate personnel to safe areas. Wear respiratory protection.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Steps To Be Taken In Case Material Is Released Or Spilled:	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. Pick up and arrange disposal without creating dust. Sweep up and shovel. Personal precautions. Use personal protective equipment. Avoid dust formation. Non Required under normal use. Ensure adequate ventilation. Evacuate personnel to safe areas. Environmental precautions. Do not let product enter drains.

7. Handling and Storage

Precautions To Be Taken in Handling:	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. Avoid formation of dust and aerosols.
Precautions To Be Taken in Storing:	Keep container tightly closed in a dry and well-ventilated place. Storage class 510): Combustible liquids Non Combustible. Hygroscopic. Storage class 510) Containers which are opened must be carefully resealed and kept upright to prevent leakage. Handle and store under inert gas. Storage class 510): Combustible, corrosive hazardous materials.
Other Precautions:	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
111-76-2	Ethanol, 2-Butoxy-	PEL: 50 ppm	TLV: 20 ppm	No data.
7758-29-4	Sodium phosphate, Tribasic	No data.	No data.	No data.
NA	(Trade Secret)	No data.	No data.	No data.
141-43-5	Ethanol, 2-Amino-	PEL: 3 ppm	TLV: 3 ppm STEL: 6 ppm	No data.
NA	(Trade Secret)	No data.	No data.	No data.
1310-73-2	Sodium hydroxide	PEL: 2 mg/m3	CEIL: 2 mg/m3	No data.

SAFETY DATA SHEET

APOLLO 91

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
111-76-2	Ethanol, 2-Butoxy-	California, USA PELs	TWA: 20 ppm	
		NIOSH	TWA: 5 ppm	
141-43-5	(Trade Secret)	California, USA PELs	TWA: 3 ppm STEL: 6 ppm	
		NIOSH	TWA: 3 ppm STEL: 6 ppm	
1310-73-2	(Trade Secret)	California, USA PELs	CEIL: 2 mg/m3	
		NIOSH	CEIL: 2 mg/m3	

Respiratory Equipment (Specify Type):	<p>Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.</p> <p>If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Wear respiratory protection. Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.</p>
Eye Protection:	<p>Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles. Faceshield (8-inch minimum).</p>
Protective Gloves:	<p>Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full contact.</p> <p>Material: Nitrile rubber, Minimum layer thickness: 0.4 mm, Break through time: 480 min. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario. Splash contact:</p>
Other Protective Clothing:	<p>Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.</p>
Engineering Controls (Ventilation etc.):	<p>Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.</p>
Work/Hygienic/Maintenance Practices:	<p>Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.</p>
Environmental Exposure Controls:	<p>Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.</p>

SAFETY DATA SHEET
APOLLO 91

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid
Appearance and Odor: Blue.
butyl-like.
pH: No data.
Melting Point: -75.00 C (-103.0 F) - 622.00 C (1151.6 F)
Boiling Point: 1.00 C (33.8 F) - 172.50 C (342.5 F)
Flash Pt: > 67.00 C (152.6 F) Method Used: Estimate
Evaporation Rate: No data.
Flammability (solid, gas): No data available.
Explosive Limits: LEL: No data. UEL: No data.
Vapor Pressure (vs. Air or mm Hg): No data.
Vapor Density (vs. Air = 1): No data.
Specific Gravity (Water = 1): No data.
Density: ~ 1.4228 G/CM3
Solubility in Water: No data.
Octanol/Water Partition Coefficient: No data.
Autoignition Pt: > 230.00 C (446.0 F)
Decomposition Temperature: No data.
Viscosity: No data.

10. Stability and Reactivity

Reactivity: No data available.
Stability: Unstable [] Stable [X]
Conditions To Avoid - Instability: NOT AVAILABLE. flames and sparks. Avoid moisture. Absorbs carbon dioxide from air. Exposure to moisture. No data available.
Incompatibility - Materials To Avoid: Strong acids, Lead. Tin/tin oxides, Zinc, Iron. Copper, Brass, Organic materials.
Hazardous Decomposition or Byproducts: No data available. In the event of fire: see section 5. formed under fire conditions. Sodium oxides, silicon oxides.
Possibility of Hazardous Reactions: Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions: No data available.

11. Toxicological Information

Toxicological Information:	Acute toxicity. Germ cell mutagenicity: Hamster ovary. Result: negative. (OECD Test Guideline 474) Mouse. male. Reproductive toxicity. Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Aspiration hazard: No data available. in vitro assay CAS# 1341-49-7: Rat. Ames test. male and female. Inhalation: Dermal.
Irritation or Corrosion:	Skin corrosion/irritation. Result: Tumorigenic:Tumors at site or application. No skin irritation -4 h. Serious eye damage/eye irritation: Eyes: Rabbit. Eye irritation. No skin irritation . (OECD Test Guideline 404) Serious eye damage/eye irritation Eyes -Rabbit) No eye irritation. Causes burns. Corrosive to eyes (OECD Test Guideline 405). Causes severe burns. Rabbit.
Sensitization:	Maximisation Test. Species: Guinea pig. Result: Tumorigenic:Tumors at site or application. Does not cause skin sensitisation. in vivo assay. Mouse. Did not cause sensitisation on laboratory animals. No data available. Will not occur.
Chronic Toxicological Effects:	Specific target organ toxicity -single exposure (Globally Harmonized System) No data available. Specific target organ toxicity -repeated exposure: no data available.
Carcinogenicity/Other Information:	IARC: Group 3: Not classifiable as to its carcinogenicity to humans . NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. Carcinogenicity.
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information

General Ecological Information:	(OECD Test Guideline 201))
Results of PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Persistence and Degradability:	Biodegradability: aerobic -Exposure time 28. Result: 90.4 % Readily biodegradable. No data available. Result: > 70 % The methods for determining the biological degradability are not applicable to inorganic substances.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.

SAFETY DATA SHEET

APOLLO 91

13. Disposal Considerations

Waste Disposal Method: Product:
Contact a licensed professional waste disposal service to dispose of this material. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging: Observe all federal, state, and local environmental regulations.
Dispose of as unused product.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Corrosive liquid, basic, inorganic, n.o.s.(Monoethanolamine)
DOT Hazard Class: 8 CORROSIVE
UN/NA Number: UN3266 **Packing Group:** III



AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Uranium hexafluoride, radioactive material, excepted package[, less than 0.1 kg per package, non-fissile or fissile-excepted]

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
111-76-2	Ethanol, 2-Butoxy-	No	No	Yes-Cat. N230
7758-29-4	Sodium phosphate, Tribasic	No	Yes 5000 LB	No
NA	(Trade Secret)	No	No	No
141-43-5	Ethanol, 2-Amino-	No	No	No
NA	(Trade Secret)	No	No	No
1310-73-2	Sodium hydroxide	No	Yes 1000 LB	No

This material meets the EPA [] Yes [X] No Acute (immediate) Health Hazard
'Hazard Categories' defined [] Yes [X] No Chronic (delayed) Health Hazard
for SARA Title III Sections [] Yes [X] No Fire Hazard
311/312 as indicated: [] Yes [X] No Sudden Release of Pressure Hazard
[] Yes [X] No Reactive Hazard

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
111-76-2	Ethanol, 2-Butoxy-	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
7758-29-4	Sodium phosphate, Tribasic	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
NA	(Trade Secret)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
141-43-5	Ethanol, 2-Amino-	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
NA	(Trade Secret)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
1310-73-2	Sodium hydroxide	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

SAFETY DATA SHEET
APOLLO 91

Page: 9
Printed: 11/04/2016
Revision: 11/04/2016

16. Other Information

Revision Date: 11/04/2016

Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

MANUFACTURER DISCLAIMER:

The information contained herein is based on the data available to us and is believed to be accurate. However, Apollo Chemical and Equipment Co. L.L.C. makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Apollo Chemical and Equipment assumes no responsibility for injuries from the use of the product described herein.