SAFETY DATA SHEET

1. Identification

Product identifier Apcotane
Other means of identification Not available.
Recommended use H2S mitgation
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Apollo Petroleum Services

Address 190 Street A

Picayune, MS 39466

United States

Not available.

Telephone 601-749-2750 **E-mail** Not available.

Emergency phone number

See above.

Supplier

2. Hazard identification

Physical hazardsCorrosive to metalsCategory 1Health hazardsAcute toxicity, oralCategory 4Skin corrosion/irritationCategory 1

Serious eye damage/eye irritation Category 1

Environmental hazards
WHMIS 2015 defined hazards

Label elements

Not classified.
Not classified



Signal word Danger

Hazard statement May be corrosive to metals.

Harmful if swallowed.

Causes severe skin burns and eye damage.

Precautionary statement

Prevention Keep only in original packaging.

Wash thoroughly after handling.

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

Wear protective gloves, protective clothing, eye protection and face protection.

Response Absorb spillage to prevent material-damage.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage Store in a corrosion resistant container with a resistant inner liner.

Store locked up.

Disposal Dispose of container in accordance with local, regional, national and international regulations.

WHMIS 2015: Health Hazard(s)

not otherwise classified

(HHNOC)

None known

WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)

None known

Hazard(s) not otherwise classified (HNOC)

Supplemental information

None known.

None.

3. Composition/Information on ingredients

M	ix'	tu	re

Chemical name	Common name and synonyms	CAS number	%
Potassium hydroxide		1310-58-3	15 - 40 *
Sodium hydroxide		1310-73-2	15 - 40 *

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments

*CANADA GHS: The exact percentage (concentration) of composition has been withheld as a

trade secret.

US GHS: The exact percentage (concentration) of composition has been withheld as a trade

secret in accordance with paragraph (i) of §1910.1200.

4. First-aid measures

Inhalation IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a

POISON CENTER or doctor.

Skin contact IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

Eye contact 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.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or Ingestion

doctor.

Most important

symptoms/effects, acute and

delaved

Burning pain and severe corrosive skin damage.

Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and

blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed

General information

Treat patient symptomatically.

If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide.

Not available.

Specific hazards arising from

the chemical

Special protective equipment

and precautions for firefighters

Fire-fighting equipment/instructions

Hazardous combustion

Specific methods

products

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Use water spray to cool unopened containers.

Use standard firefighting procedures and consider the hazards of other involved materials.

May include and are not limited to: Oxides of carbon. Oxides of sodium.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Clean surface thoroughly to remove residual contamination. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.

Environmental precautions

Do not discharge into lakes, streams, ponds or public waters.

7. Handling and storage

Precautions for safe handling

Do not get in eyes, on skin, or on clothing. Wear appropriate personal protective equipment. Do not taste or swallow. Provide adequate ventilation. Observe good industrial hygiene practices. Wash thoroughly after handling. When using, do not eat, drink or smoke.

#31945 Page: 2 of 9 Issue date 16-April-2020 Store in a corrosion resistant container with a resistant inner liner. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children. Store locked up.

8. Ex	cposure controls/Pe	sonal protection	
upational exposure limits			
Canada. Alberta OELs (Occupational H			
Components	Туре	Value	
Potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3	
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	
Canada. British Columbia OELs. (Occu Safety Regulation 296/97, as amended)		s for Chemical Substances, Occupational Hea	ilth and
Components	Туре	Value	
Potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3	
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	
Canada. Manitoba OELs (Reg. 217/2000 Components	6, The Workplace Safety Type	And Health Act) Value	
Potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3	
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	
Canada. Ontario OELs. (Control of Exp Components	osure to Biological or Cl Type	nemical Agents) Value	
Potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3	
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	
Canada. Quebec OELs. (Ministry of Lat	-	- ·	
Components	Type	Value	
Potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3	
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	
Canada. Saskatchewan OELs (Occupa Components	tional Health and Safety Type	Regulations, 1996, Table 21) Value	
Potassium hydroxide (CAS	Ceiling	2 mg/m3	
1310-58-3)	5	3 -	
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	
US. OSHA Table Z-1 Limits for Air Cont Components	aminants (29 CFR 1910. Type	000) Value	
Sodium hydroxide (CAS 1310-73-2)	PEL	2 mg/m3	
US. ACGIH Threshold Limit Values Components	Туре	Value	
Potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3	
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	
US. NIOSH: Pocket Guide to Chemical Components	Hazards Type	Value	
Potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3	
Sodium hydroxide (CAS	Ceiling	2 mg/m3	

#31945 Page: 3 of 9 Issue date 16-April-2020

Biological limit valuesNo biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields.

Skin protection

Hand protection Impervious gloves. Confirm with reputable supplier first.

Other As required by employer code.

Respiratory protection Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134),

CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

Thermal hazards Wear appropriate thermal protective clothing, when necessary. Not applicable.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks

and immediately after handling the product. When using, do not eat, drink or smoke.

9. Physical and chemical properties

AppearanceLiquidPhysical stateLiquid.FormLiquidColorBlueOdorOdorlessOdor thresholdNot available.

pH 14

Melting point/freezing point 32 °F (0 °C)
Initial boiling point and boiling 212 °F (100 °C)

range

Pour pointNot available.Specific gravityNot available.Partition coefficientNot available.

(n-octanol/water)

Flash point

Evaporation rate

Not available.

Not available.

Not available.

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 14 mm Hg @ 20°C

Vapor density > 1 Relative density 1.4

Solubility(ies)

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

Not available.

Not available.

Other information

Explosive propertiesNot explosive. **Oxidizing properties**Not oxidizing.

10. Stability and reactivity

Reactivity May react with incompatible materials.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Chemical stability Material is stable under normal conditions.

#31945 Page: 4 of 9 Issue date 16-April-2020

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not mix

with other chemicals.

Incompatible materials

Strong acids. Strong oxidizing agents. Metals.

Hazardous decomposition

products

May include and are not limited to: Oxides of sodium. Oxides of carbon.

11. Toxicological information

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact. Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

Ingestion Harmful if swallowed. May cause stomach distress, nausea or vomiting.

May cause irritation to the respiratory system. Prolonged inhalation may be harmful. Inhalation

Skin contact Causes severe skin burns. Eve contact Causes serious eye damage.

Burning pain and severe corrosive skin damage. Symptoms related to the

Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and physical, chemical and

blurred vision. Permanent eye damage including blindness could result. toxicological characteristics

Information on toxicological effects

Acute toxicity Harmful if swallowed

Test Results Components **Species**

Potassium hydroxide (CAS 1310-58-3)

Acute

Dermal

LD50 Not available

Inhalation

LC50 Not available

Oral

LD50 Rat 388 mg/kg, ECHA

> 365 mg/kg, ECHA 333 mg/kg, ECHA 273 mg/kg, HSDB

Sodium hydroxide (CAS 1310-73-2)

Acute

Dermal

LD50 Not available

Inhalation

LC50 Not available

Oral

Not available LD50

Skin corrosion/irritation Causes skin burns.

Exposure minutes Not available. Not available. Erythema value Not available. Oedema value

Serious eye damage/eye

irritation

Causes serious eye damage.

Corneal opacity value Not available. Iris lesion value Not available. Conjunctival reddening Not available.

value

Conjunctival oedema value Not available. Recover days Not available.

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

Potassium hydroxide (CAS 1310-58-3) Irritant Sodium hydroxide (CAS 1310-73-2) Irritant

Not a respiratory sensitizer. Respiratory sensitization

#31945 Page: 5 of 9 Issue date 16-April-2020 Skin sensitization This product is not expected to cause skin sensitization.

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classified.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Teratogenicity Specific target organ toxicity - Not available. Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard. **Aspiration hazard**

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

See below **Ecotoxicity**

Ecotoxicological data

Components **Species Test Results**

Potassium hydroxide (CAS 1310-58-3)

Aquatic

LC50 Western mosquitofish (Gambusia affinis) 80 mg/L, 96 hours

Sodium hydroxide (CAS 1310-73-2)

Aquatic

Crustacea EC50 Water flea (Ceriodaphnia dubia) 34.59 - 47.13 mg/L, 48 hours

Fish LC50 Western mosquitofish (Gambusia affinis) 125 mg/L, 96 hours

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential No data available. No data available. Mobility in soil Mobility in general Not available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions

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

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Empty containers or liners may retain some product residues. This material and its container must

be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

Transport of Dangerous Goods (TDG) Proof of Classification

Classification Method: Classified as per Part 2, Sections 2.1 - 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number

Proper shipping name Corrosive liquid, basic, inorganic, n.o.s.

Hazard class Packing group Ш

IB3, T7, TP1, TP28 Special provisions

Packaging exceptions 154

#31945 Page: 6 of 9 Issue date 16-April-2020 Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number UN3266

Proper shipping name CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

Hazard class 8
Packing group III
Special provisions 16

DOT



TDG



15. Regulatory information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Export Control List (CEPA 1999, Schedule 3)

Not listed

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS 2015 Exemptions Not applicable

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Potassium hydroxide (CAS 1310-58-3) Listed. Sodium hydroxide (CAS 1310-73-2) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely No

hazardous substance

Classified hazard Acute toxicity (any route of exposure)

categories Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

US state regulations See below

US - California Hazardous Substances (Director's): Listed substance

Potassium hydroxide (CAS 1310-58-3) Listed. Sodium hydroxide (CAS 1310-73-2) Listed.

US - Illinois Chemical Safety Act: Listed substance

Potassium hydroxide (CAS 1310-58-3) Sodium hydroxide (CAS 1310-73-2)

US - Louisiana Spill Reporting: Listed substance

Potassium hydroxide (CAS 1310-58-3) Listed. Sodium hydroxide (CAS 1310-73-2) Listed.

US - Minnesota Haz Subs: Listed substance

Potassium hydroxide (CAS 1310-58-3) Listed. Sodium hydroxide (CAS 1310-73-2) Listed.

US - Texas Effects Screening Levels: Listed substance

Potassium hydroxide (CAS 1310-58-3) Listed. Sodium hydroxide (CAS 1310-73-2) Listed.

US. Massachusetts RTK - Substance List

Potassium hydroxide (CAS 1310-58-3) Sodium hydroxide (CAS 1310-73-2)

US. New Jersey Worker and Community Right-to-Know Act

Potassium hydroxide (CAS 1310-58-3) Sodium hydroxide (CAS 1310-73-2)

US. Pennsylvania Worker and Community Right-to-Know Law

Potassium hydroxide (CAS 1310-58-3) Sodium hydroxide (CAS 1310-73-2)

US. Rhode Island RTK

Potassium hydroxide (CAS 1310-58-3) Sodium hydroxide (CAS 1310-73-2)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Inventory status

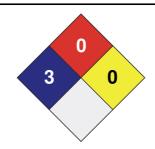
Country(s) or region	Inventory name On inventory (On inventory (yes/no)*	
Canada	Domestic Substances List (DSL)	Yes	
Canada	Non-Domestic Substances List (NDSL)	No	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes	

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information







Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Prepared by Dell Tech www.delltech.com Phone: 519-858-5021

Further information Not available.

Other information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

#31945 Page: 9 of 9 Issue date 16-April-2020