

1. IDENTIFICATION

Product Identifier

Product Name ALKADET

Recommended use of the chemical and restrictions on use

Recommended use Laundry alkali builder
Restrictions on use For industrial use only

Supplier details

West Penetone Inc.
11411-160 Street
Edmonton, AB,
T5M3T7
Tel: 780-454-3919

Emergency Telephone Number

Canutec (613)-996-6666

2. HAZARDS IDENTIFICATION

Classification

Corrosive to metals	Category 1
Acute toxicity, oral	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 2

Label Elements

DANGER

Hazard Statements

May be corrosive to metals
Harmful if swallowed
Causes severe skin burns and eye damage
Suspected of causing cancer



Precautionary Statements - Prevention

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep only in original packaging.
Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink, or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response

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/physician.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
IF exposed or concerned: get medical advice/attention.
Absorb spillage to prevent material-damage.

Precautionary Statements - Storage

Store in a corrosive resistant/container with resistant liner. Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant according to local, provincial/federal regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
potassium hydroxide	1310-58-3	10-30
sodium metasilicate	6834-92-0	7-13
trisodium nitrilotriacetic acid	5064-31-3	5-10
tetrapotassium pyrophosphate	7320-34-5	1-5

4. FIRST AID MEASURES**Eye contact**

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/physician.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

Inhalation

Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Ingestion

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Most important symptoms and effects, both acute and delayed

Contact with eyes may cause serious corneal injury or damage leading to irritation, discomfort or pain, excess blinking and tear production with marked excess redness and swelling of the conjunctiva, blurred vision, and possible blindness. Contact with skin may cause burns or irritation with local redness or blistering. See Section 2 for possible delayed effects.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed including oxides of carbon, nitrogen, and sulfur and other irritating gases.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment.

Environmental Precautions

Avoid discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

Contain and solidify with inert absorbent materials. Keep in suitable, closed containers for disposal. Following product recovery, flush area with water. For large spills, stop flow of material, prevent product from entering drains, and pump off product where this is without risk and possible. Proceed as above.

7. HANDLING AND STORAGE**Precautions for Safe Handling**

Handling Avoid contact with skin and eyes. Do not handle until all safety precautions or special instructions have been read and understood.

Conditions for safe storage, including any incompatibilities

Storage Keep only in original container. Store locked up away from incompatible materials.

Incompatible Materials Strong oxidizing materials, acids, amphoteric or light metals

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameters**

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
potassium hydroxide 1310-58-3	TWA: 2 mg/m ³	Not available	Not available
sodium metasilicate 6834-92-0	TWA: 2 mg/m ³	Not available	Not available
tetrapotassium pyrophosphate 7320-34-5	Not available	TWA: 15 mg/m ³ (total dust) TWA: 5 mg/m ³ (resp. fraction)	Not available

Appropriate engineering controls

Engineering Controls Under the intended modes of use, exposure control measures are not required.

Individual protection measures, such as personal protective equipment

Eye/face Protection Safety glasses with side shields or goggles. Use full face-shield where handling of product poses risk of splashing.

Skin and body protection Wear protective gloves and protective clothing.

Respiratory Protection No personal respiratory equipment normally required.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Routinely wash work clothing to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE :**

Clear, red liquid

ODOR

Odorless

ODOR THRESHOLD :

Not applicable

pH :

13.4-13.8

MELTING POINT / FREEZING POINT :

Approx. -5°C

BOILING POINT/BOILING RANGE :

Approx. 100°C

FLASH POINT :

None

EVAPORATION RATE, water = 1 :

<1

FLAMMABILITY (SOLID, GAS):

Not applicable

VAPOR PRESSURE, mm Hg AT 20°C :

Not applicable

VAPOR DENSITY (Air = 1) :

Not applicable

RELATIVE DENSITY AT 20°C:

1.345-1.355

SOLUBILITY IN WATER :

Complete

PARTITION COEFFICIENT, N-OCTANOL/WATER :

Not available

AUTO-IGNITION TEMPERATURE :

None

DECOMPOSITION TEMPERATURE:

Not available

VISCOSITY:

Not available

FLAMMABLE LIMITS :

UPPER: Not applicable LOWER : Not applicable

10. STABILITY AND REACTIVITY**Reactivity**

Not reactive.

Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid

Store away from incompatible materials.

Incompatible Materials

Strong oxidizing materials, acids, amphoteric or light metals.

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decompositions can lead to release of irritating gases and vapors such as oxides of potassium, carbon, nitrogen, phosphorous and sodium.

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
potassium hydroxide 1310-58-3	205-365 mg/kg (rat)	Not listed	Not listed
sodium metasilicate 6834-92-0	600 mg/kg (rat)	Not listed	Not listed
trisodium nitrilotriacetic acid 5064-31-3	1740 mg/kg (rat)	Not listed	Not listed
tetrapotassium pyrophosphate 7320-34-5	>1000 mg/kg (rabbit)	>4640 mg/kg (rabbit)	Not listed

Information on likely sources of exposure**Serious eye damage/irritation**

Causes serious eye damage.

Skin corrosion/irritation

May cause burns or irritation with local redness or blistering.

Ingestion

May be harmful if swallowed.

Inhalation

Expected to be a low inhalation hazard.

Delayed and immediate effects and also chronic effects from short and long-term exposure**Respiratory or skin sensitization**

Not a sensitizer.

Germ cell mutagenicity

None known.

Carcinogenicity

trisodium nitrilotriacetate (CAS 5064-31-3)

2B Possibly carcinogenic to humans

Reproductive toxicity

No information available

STOT - single exposure

No information available.

STOT-repeated exposure

No information available.

Aspiration Hazard

None.

Symptoms related to the physical, chemical and toxicological characteristics

Eye damage or irritation. Skin burns or irritation. See Section 2 for further characteristics.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

If available, ecotoxicity values of individual components are shown below.

Chemical Name	Fish	Waterflea	Algae
potassium hydroxide 1310-58-3	80 mg/L: 24 h fresh water mosquito fish LC50	Not listed	Not listed
trisodium nitrilotriacetic acid 5064-31-3	127 mg/L: 96 h pimephales promelas LC50	560-1000 mg/L: 48 h daphnia magna EC50	>100 mg/L: 72 h desmodesums subspicatus EC50

Persistence and degradability

Expected to be potentially biodegradable.

Bioaccumulative potential

Accumulation in organisms is not to be expected.

Mobility in soil

No information available

Other adverse effects

Do not release untreated into natural waters. No other adverse environmental effects are expected.

13. DISPOSAL CONSIDERATIONS**Waste Disposal Method**

Dispose of in accordance with local regulations.

Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION**TDG classification**

UN 3266, Corrosive Liquid, Basic, Inorganic, N.O.S. (potassium hydroxide solution), Class 8, PG II

15. REGULATORY INFORMATION

All ingredients are listed on the DSL

16. OTHER INFORMATION**Preparation Date**

2 May, 2016

Revision Date

not applicable

Revision Note

not applicable

Disclaimer

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End of SDS