



KEY SCIENTIFIC PRODUCTS
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Safety Data Sheet

1 Identification

GHS Product Identifier

Product Name: **Dropit KOH 40% (VP B)**

Catalog Number: **K980670**

Recommended use of the chemical and restriction on use

For invitro diagnostic use only by trained professionals.

Supplier's details

KEY SCIENTIFIC PRODUCTS, INC
1113 E REYNOLDS
STAMFORD, TX 79553

Telephone: 800-843-1539
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2 Hazard(s) identification

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Corrosive to metals (Category 1), H402

Acute toxicity, Oral (Category 4), H302

Skin Corrosion (Category 1A), H314

Serious eye damage (Category 1), H318

Short-term (acute) aquatic hazard (Category 3), H402

GHS label elements

Danger



May be corrosive to metals

Harmful if swallowed

Causes severe skin burns and eye damage

Causes serious eye damage

Harmful to aquatic life

Keep only in original container.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash skin thoroughly after handling.

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

Avoid release to the environment.

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

IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.

IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.

IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

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.

Rinse mouth.

Wash contaminated clothing before reuse.

Absorb spillage to prevent material damage.

Store locked up.

Store in corrosive resistant/corrosion resistant container with a resistant inner liner.

Dispose of contents/container to an approved waste disposal plant.

Other hazards which do not result in classification

None.

3 Composition/information on ingredients

Description	CAS Number	EINECS Number	%	Note
potassium hydroxide	1310-58-3	215-181-3	0 - 1.34	

4 First-aid measures

Description of necessary first-aid measures

EYES:	Rinse thoroughly with water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
Ingestion:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin:	Take off contaminated clothing and shoes immediately. Wash with plenty of soap and water. Consult a physician.

5 Fire-fighting measures

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical

Potassium oxides

Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

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.

Methods and materials for containment and cleaning up

Sweep up and shovel without creating dust. Contain in suitable, closed container for disposal.

7 Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid dust and aerosol formation. Ensure adequate ventilation. Avoid inhalation of vapor or mist. 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.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Absorbs carbon dioxide (CO₂) from air.

8 Exposure controls/personal protection

Control parameters

USA . ACGIH Threshold Limit Values (TLV)

caustic potash
CAS# 1310-58-3
Value C: 2 mg/m³
Upper Respiratory Track irritation
Eye irritation
Skin irritation

USA. NIOSH Recommended Exposure Limits

caustic potash
CAS# 1310-58-3
Value C: 2 mg/m³
California permissible exposure limits for chemical
contaminants (Title 8, Article 107)
Value C: 2 mg/m³

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the day.

Individual protection measures

Eye/face protection:

Safety glasses with side shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN (EU).

Skin protection:

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.

Body Protection: Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9 Physical and chemical properties

Physical and chemical properties

Appearance:	Form: liquid Color: colorless
Odor:	Odorless
Odor Threshold:	No data available
pH:	ca.13.5 at 5.6 g/l at 25 C (77 F)
Melting point/freezing point:	Melting point/range: 361 C (681 F)
Melting point:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability:	No data available
Upper/lower flammability/explosion limits:	No data available
Vapor pressure:	1 hPa at 719 C (1326 F)
Vapor density:	No data available
Relative density:	2.04 g/cm ³ at 20 C (68 F)
Water solubility:	1130 g/l at 20 C (68 F)
Partition coefficient (n-octal/water):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available

Other safety information

Solubility in other solvents: No data available

Surface tension: No data available

Relative vapor density: No data available

10 Stability and reactivity

Reactivity

No data available

Chemical stability

Heat of solution is very high, and with limited amounts of water, Violents boiling may occur.
Stable under recommended storage conditions

Possibility of hazardous reactions

No data available

Conditions to avoid

Do not heat above melting point.

Incompatible materials

Nitro compounds, Organic materials, Magnesium, Copper ,Water, reacts violently with: Metals, Light metals, Contact with aluminumtin and zinc liberates hydrogen gas.

Contact with n formation of chock-sensutuve salts. Vigorous reaction with: Alkali metals, Hologens, Azides, Anhydrides, Stron oxidizing agents.

Hazardous decomposition products

Hazarous decomposition products formed under fire conditions - Potassium oxides

Other decomposition products: No data available

In the event of fire: see section 5

11 Toxicological information

Toxicological (health) effects

Acute toxicity

LD50 Oral - Rat - male - 333 mg/kg
(OECD) Test Guideline 425

Inhalation

Inhalation: Corrosive to respiratory system.

Dermal

No data available

Skin corrosion/irritation

Skin - Rabbit: Causes burns

Remarks: (IUCLID)

Serious eye damage

Eyes - Rabbit - Severe eye damage
(OECD Test Guideline 405)

Causes serious eye damage.

Respiratory or skin sensitisation

Sensitisation test: - Guinea pig

Result: negative

Remarks: (IUCLID)

Germ cell mutagenicity

Ames test

Salmonella typhimurium

Result: negative

(ECHA)

In vitro mammalian cell gene mutation test Mouse lymphoma cells

Result: negative

Carcinogenicity

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.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as 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.

Reproduction toxicity

No data available

Developmental Toxicity

No data available

Specific target organ-single exposure

No data available

Acute oral toxicity - if ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

Acute inhalation toxicity - burns of mucous membranes, Cough, Shortness of breath,

Visible damages:; damage of respiratory tract

Specific target organ-repeated exposure

No data available

Aspiration hazard

No data available

Additional information

RTECS: TT2100000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12 Ecological information

Toxicity

Toxic to fish LC50 - Gambusia affinis (Mosquito fish) - 80 mg/l -96h
Remarks: (IUCLID)

Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

13 Disposal considerations

Disposal methods

Product

Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14 Transport information

UN Number

DOT (US)

UN number: 1813 Class: 8 Packing group: II

Proper shipping name: Potassium hydroxide

Reportable Quantity: No

Poison Inhalation Hazard: No

IMDG

UN number: 18130 Class: 8 Packing group: II

EMS-No: FA, S-B

Proper shipping name: Potassium hydroxide

IATA

UN number: 1813 Class: 8 Packing group: II

Proper shipping name: Potassium hydroxide

15 Regulatory information

Safety, health and environmental regulations specific for the product in question

SARA 302 Components

No chemicals in the material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimus) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Potassium hydroxide	1310-58-3	1989-08-11

16 Other information**Other information****Further Information**

The above information, to the best of our knowledge, is accurate. Key Scientific Products assumes no liability whatsoever for the accuracy or completeness of the information stated above. Final determination of suitability of materials is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards may be described, we cannot guarantee that these are the only hazards that exist.