iDrain Potassium Hydroxide Flakes

According to OSHA 29 CFR 1910.1200 and GHS

Issue Date: 01-2026 Revision Date: 01-2026 Version: 01 EN (English US)

SECTION 1: IDENTIFICATION

1.1 Product Identifier

Field	Information
Product Name	iDrain Potassium Hydroxide Flakes
Chemical Name	Potassium Hydroxide
Product Form	Technical Flake, Industrial Grade, White Flakes
CAS Number	1310-58-3

1.2 Other Means of Identification

Field	Information
Synonyms	Caustic Potash; Potash Lye
Chemical Formula	KOH
Molecular Weight	56.11

1.3 Recommended Use of the Product

Industrial use; drain cleaning; grease traps; soap making; pH adjustment; cleaning, degreasing and chemical processing applications.

1.4 Restrictions on Use

Not for food use. Not for human or animal consumption. Not for cosmetic, pharmaceutical, medical or pesticide applications. This product is not food grade and is not intended for ingestion.

1.5 Name, Address, and Telephone of Responsible Party

HBG Distribution Inc.
709 B W Rusk St. Suite 322
Rockwall, TX 75087
United States
Phone: (972) 485-1700
Website: idrain-hbg.com

1.6 Emergency Telephone Number

CHEMTREC (24 hours): 1-800-424-9300

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the Substance

Hazard Class	Category
Corrosive to metals	Category 1
Acute toxicity (oral)	Category 3
Skin corrosion/irritation	Category 1A
Serious eye damage	Category 1
Specific target organ toxicity - single exposure	Category 3 (respiratory irritation)
Hazardous to aquatic environment - acute	Category 3
Hazardous to aquatic environment - chronic	Category 3
OSHA defined hazard	Not classified beyond the hazards listed above

2.2 Label Elements

Signal Word **DANGER**		
Pictograms	GHS05 Corrosion	GHS06 Skull and Crossbones

2.3 Hazard Statements

Code	Hazard Statement
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

2.4 Precautionary Statements

Category	Precautionary Statement
Prevention	P234 Keep only in original container.
Prevention	P260 Do not breathe dust or mist.

Prevention	P264 Wash thoroughly after handling.
Prevention	P270 Do not eat, drink, or smoke when using this product.
Prevention	P271 Use only outdoors or in a well-ventilated area.
Prevention	P273 Avoid release to the environment.
Prevention	P280 Wear protective gloves, protective clothing, eye protection, and face protection.
Response	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or physician.
Response	P330 Rinse mouth.
Response	P331 Do NOT induce vomiting.
Response	P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
Response	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Response	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Response	P310 Immediately call a POISON CENTER or physician.
Response	P363 Wash contaminated clothing before reuse.
Response	P390 Absorb spillage to prevent material damage.
Storage	P405 Store locked up.
Storage	P406 Store in corrosion-resistant container with a resistant inner liner. Protect from moisture.
Disposal	P501 Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.5 Hazards Not Otherwise Classified (HNOC)

None known. Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.6 Supplemental Information

Always add product slowly to water. Never add water directly to dry product. Use caution because heat may be generated.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Chemical Name	Common Name and Synonyms	CAS Number	Concentration	GHS Ingredient Classification
Potassium Hydroxide	Caustic Potash; Potash Lye	1310-58-3	90 - 100%	Met. Corr. 1; Acute Tox. 3 (Oral); Skin Corr. 1A; Eye Dam. 1; STOT SE 3; Aquatic Acute 3; Aquatic Chronic 3

3.2 Mixture

Not applicable.

SECTION 4: FIRST-AID MEASURES

4.1 Description of First-Aid Measures

Route	First-Aid Measures
General	Never give anything by mouth to an unconscious person. If medical advice is needed, have product container, label, or SDS available. Ensure medical personnel are aware of the material involved and take precautions to protect themselves.
Inhalation	Move person to fresh air and keep comfortable for breathing. Call a physician or poison control center if symptoms develop or persist.
Skin Contact	Take off immediately all contaminated clothing. Rinse skin with water or shower for at least 15 - 30 minutes. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 - 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so stomach contents do not enter lungs.

4.2 Most Important Symptoms and Effects, Acute and Delayed

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. Coughing and respiratory irritation may occur. Ingestion may cause burns to the mouth, throat, esophagus, and gastrointestinal tract.

4.3 Indication of Immediate Medical Attention and Special Treatment Needed

Provide general supportive measures and treat symptomatically. Chemical burns: flush with water immediately. Continue flushing during transport to the hospital. Keep the victim under observation. Symptoms may be delayed.

SECTION 5: FIRE-FIGHTING MEASURES

Subsection	Information
5.1 Extinguishing Media	Suitable extinguishing media: Water fog, foam, dry chemical powder, or carbon dioxide (CO2). Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.
5.2 Special Hazards Arising from the Substance	Product is not flammable. During fire, gases hazardous to health may be formed. Contact with metals may release flammable hydrogen gas. Thermal decomposition may produce corrosive fumes.
5.3 Advice for Firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if this can be done without risk. Use water spray to cool exposed containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Subsection	Information

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill or leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation.
6.2 Environmental Precautions	Avoid release to the environment. Prevent entry into waterways, sewers, basements, confined areas, soil, or onto the ground. Inform appropriate authorities if significant releases cannot be contained.
6.3 Methods and Materials for Containment and Cleaning Up	Avoid dispersal of dust in the air. Stop the flow of material if this can be done without risk. Absorb spillage to prevent material damage. Collect dust using a HEPA vacuum or sweep carefully into a suitable labeled container for disposal. Do not return spilled product to original containers for reuse.
6.4 Reference to Other Sections	See Section 8 for exposure controls and personal protection. See Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

Subsection	Information
7.1 Precautions for Safe Handling	Minimize dust generation and accumulation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Wear appropriate PPE. Wash hands thoroughly after handling. Always add product slowly to water. Never add water directly to dry product. Exothermic reaction may occur.
7.2 Conditions for Safe Storage, Including Incompatibilities	Store locked up. Store in a cool, dry place out of direct sunlight. Store in corrosion-resistant container with a resistant inner liner. Store in tightly closed container. Keep only in original container. Protect from moisture. Store away from acids, oxidizing agents, metals, water exposure, and incompatible materials.
7.3 Specific End Use(s)	General cleaning/drain applications: Slowly add product into application area and carefully activate with water, then flush thoroughly. Soap making: Use only in controlled formulations and follow proper chemical handling procedures. Industrial use: Use as directed for cleaning, degreasing, pH adjustment, or chemical processing.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Substance	Source	Exposure Limit
Potassium Hydroxide (CAS 1310-58-3)	OSHA PEL	2 mg/m3 Ceiling
Potassium Hydroxide (CAS 1310-58-3)	ACGIH TLV	2 mg/m3 Ceiling
Potassium Hydroxide (CAS 1310-58-3)	NIOSH REL	2 mg/m3 Ceiling

Biological Limit Values: No biological exposure limits noted for the ingredient(s).

8.2 Exposure Controls

Appropriate engineering controls: Good general ventilation should be used. Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Eye wash facilities and emergency showers must be available when handling this product.

PPE Type	Recommendation
Eye/Face Protection	Wear chemical safety goggles and a face shield.
Hand Protection	Wear appropriate chemical-resistant gloves. Neoprene, butyl rubber, nitrile, or equivalent gloves are recommended.
Skin/Body Protection	Wear appropriate chemical-resistant protective clothing, apron, and boots as needed.
Respiratory Protection	In case of insufficient ventilation or risk of exposure to dust above exposure limits, wear a NIOSH-approved respirator suitable for caustic dust.
Thermal Hazards	Wear appropriate thermal protective clothing when necessary.
Hygiene Measures	Keep away from food and drink. Wash thoroughly after handling and before eating, drinking, or smoking. Routinely wash contaminated work clothing and protective equipment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Property	Value
Physical State	Solid
Form / Appearance	White flakes
Odor	Odorless or not available
Odor Threshold	No data available
pH	13.5
Melting Point / Freezing Point	716 F (380 C)
Boiling Point or Initial Boiling Point and Range	2420.6 F (1327 C)
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability	Not flammable
Upper/Lower Flammable or Explosive Limits	Not applicable
Vapor Pressure	< 0.000001 kPa (77 F / 25 C)
Vapor Density	Not available
Relative Density	2.04 estimated
Density	2.04 g/cm3
Solubility in Water	1070 g/L at 59 F; highly soluble
Partition Coefficient (n-octanol/water)	Not available
Auto-Ignition Temperature	Not available

Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available
Explosive Properties	Not explosive
Oxidizing Properties	Not oxidizing
Molecular Formula	KOH
Molecular Weight	56.11

SECTION 10: STABILITY AND REACTIVITY

Subsection	Information
10.1 Reactivity	Reacts violently with strong acids. This product may react with oxidizing agents. May be corrosive to metals and may generate hydrogen gas on contact with some metals. Exothermic reaction may occur with water.
10.2 Chemical Stability	Material is stable under normal conditions.
10.3 Possibility of Hazardous Reactions	No dangerous reaction known under conditions of normal use. Exothermic reaction may occur with water.
10.4 Conditions to Avoid	Contact with incompatible materials. Do not mix with other chemicals. Avoid moisture and uncontrolled addition of water to product.
10.5 Incompatible Materials	Acids, strong oxidizing agents, oxidizing agents, metals, maleic anhydride, moisture, and incompatible materials.
10.6 Hazardous Decomposition Products	No hazardous decomposition products are known under normal conditions. Thermal decomposition may produce corrosive fumes. Hydrogen gas may form when product contacts certain metals.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Endpoint	Result
Likely Routes of Exposure	Inhalation, skin contact, eye contact, ingestion
Oral LD50 (rat)	273 mg/kg
Skin Corrosion/Irritation	Causes severe skin burns and eye damage.
Serious Eye Damage/Irritation	Causes serious eye damage; may cause permanent injury including blindness.
Respiratory or Skin Sensitization	Not a respiratory sensitizer. This product is not expected to cause skin sensitization.
Germ Cell Mutagenicity	No data available to indicate product or components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity	Not classifiable as to carcinogenicity to humans. Not listed by IARC, OSHA or NTP.
Reproductive Toxicity	This product is not expected to cause reproductive or developmental effects.
STOT - Single Exposure	May cause respiratory irritation.
STOT - Repeated Exposure	Not classified.
Aspiration Hazard	Not an aspiration hazard.
Chronic Effects	Prolonged inhalation may be harmful.

11.2 Symptoms/Injuries After Exposure

Inhalation: May cause respiratory irritation. Skin contact: Causes severe skin burns. Eye contact: Causes serious eye damage. Ingestion: Toxic if swallowed and may cause digestive tract burns. Symptoms may include nausea, vomiting, diarrhea, burning pain, stinging, tearing, redness, swelling, blurred vision, and coughing.

SECTION 12: ECOLOGICAL INFORMATION

Subsection	Information
12.1 Toxicity	Harmful to aquatic life with long lasting effects. Fish LC50: Western mosquitofish (Gambusia affinis), 80 mg/L, 96 hours. Avoid release to the environment.
12.2 Persistence and Degradability	No data available on the degradability of this substance.
12.3 Bioaccumulative Potential	No data available.
12.4 Mobility in Soil	No data available. Product is highly soluble and may disperse in soil or water.
12.5 Other Adverse Effects	No other adverse environmental effects are expected from this component; avoid discharge to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Subsection	Information
13.1 Waste Treatment Methods	Dispose of this material and its container to hazardous or special waste collection point. Do not allow this material to drain into sewers or water supplies. Dispose of contents/container in accordance with local, regional, national, and international regulations. Neutralization may be required before disposal by qualified personnel.
13.2 Hazardous Waste Code	D002: Waste corrosive material [pH <= 2 or >= 12.5, or corrosive to steel], where applicable. The waste code should be assigned in discussion between the user, the producer, and the waste disposal company.
13.3 Contaminated Packaging	Empty containers or liners may retain some product residues. Follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

14.1 DOT (US)

Field	Value
UN Number	UN1813
Proper Shipping Name	Potassium hydroxide, solid
Hazard Class	8
Label Code	8
Packing Group	II
ERG Number	154
Special Provisions	IB8, IP2, IP4, T3, TP33
Packaging Exceptions	154
Packaging Non-Bulk	212
Packaging Bulk	240
Marine Pollutant	No

14.2 IATA

Field	Value
UN Number	UN1813
Proper Shipping Name	Potassium hydroxide, solid
Hazard Class	8
Packing Group	II
ERG Code	8L
Passenger and Cargo Aircraft	Allowed with restrictions
Cargo Aircraft Only	Allowed with restrictions

14.3 IMDG

Field	Value
UN Number	UN1813
Proper Shipping Name	POTASSIUM HYDROXIDE, SOLID
Hazard Class	8
Packing Group	II
Marine Pollutant	No
EmS	F-A, S-B
Transport in bulk according to IMO instruments	Not applicable

Transport label: Corrosive, Class 8. Read safety instructions, SDS, and emergency procedures before handling.

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

Regulation	Status
OSHA Hazard Communication Standard	This product is a hazardous chemical as defined by OSHA 29 CFR 1910.1200.
Toxic Substances Control Act (TSCA)	This substance is on the TSCA 8(b) inventory and is designated active.
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) is listed.
SARA 304 Emergency Release Notification	Not regulated.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)	Not listed.
SARA 302 Extremely Hazardous Substance	Not listed.
SARA 311/312 Hazardous Chemical	Yes.
SARA 311/312 Hazard Categories	Corrosive to metal; Acute toxicity (any route of exposure); Skin corrosion or irritation; Serious eye damage or eye irritation; Specific target organ toxicity (single exposure).
SARA 313 (TRI Reporting)	Not regulated.
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.
Clean Water Act (CWA)	Hazardous substance.
Safe Drinking Water Act (SDWA)	Not regulated.
Food and Drug Administration (FDA)	Not intended for food, drug, cosmetic, pharmaceutical, medical or animal consumption use under the iDrain product label.

15.2 US State Regulations

California Proposition 65: This product is not known to contain chemicals listed as carcinogens or reproductive toxins under California Proposition 65.

15.3 International Inventories

Country or Region	Inventory Name	On Inventory
Australia	Australian Inventory of Industrial Chemicals (AIIC)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

SECTION 16: OTHER INFORMATION

16.1 Issue and Revision Information

Field	Value
Issue Date	01-2026
Revision Date	01-2026
Version	01

16.2 NFPA Rating

Rating Type	Health	Flammability	Reactivity	Special
NFPA 704	3	0	1	-

16.3 HMIS Rating

Rating Type	Health	Flammability	Physical Hazard	Personal Protection
HMIS III	3	0	1	See Section 8

16.4 Regulatory Compliance Statement

This Safety Data Sheet has been prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200). The classification and hazard information contained herein are consistent with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), as adopted by OSHA.

16.5 Full Text of Hazard Statements

Code	Full Text
H290	May be corrosive to metals
H301	Toxic if swallowed
H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation
H412	Harmful to aquatic life with long lasting effects

16.6 Disclaimer

The information contained herein is based on data available to HBG Distribution Inc. and is believed to be accurate as of the date of preparation. However, no warranty, expressed or implied, is made regarding the accuracy, completeness, or suitability of this information for any particular purpose.

This Safety Data Sheet is provided solely for the purpose of compliance with applicable health, safety, and environmental regulations and does not constitute a specification or guarantee of product properties. The user is responsible for determining the suitability of this material for their intended use and for ensuring that it is handled, stored, and disposed of in accordance with all applicable laws, regulations, and safe handling practices.

HBG Distribution Inc. shall not be liable for any damages resulting from improper handling, use, storage, disposal, repackaging, or misuse of this product. Appropriate hazard warnings and safe handling procedures must be followed at all times.

16.7 Revision Information

Initial iDrain-branded SDS for Potassium Hydroxide Flakes based on supplier safety data, product label review, OSHA Hazard Communication requirements, and product hazard classification alignment.