

SECTION 1: IDENTIFICATION

1.1 Product Identifier

Product Name: iDrain Sodium Hydroxide Flakes
Chemical Name: Sodium Hydroxide
Product Form: Technical Flake, Micropearls, Beads
CAS Number: 1310-73-2

1.2 Other Means of Identification

Synonyms: Caustic Soda, Lye, Sodium Hydrate
Chemical Formula: NaOH
Molecular Weight: 40.01

1.3 Recommended Use of the Product

Industrial use; drain cleaning; grease traps; soap making; pH adjustment; general industrial and laboratory applications.

1.4 Restrictions on Use

Not to be used as a pesticide. Not for food, cosmetic, pharmaceutical, or medicinal use.

1.5 Name, Address, and Telephone of Responsible Party

HBG Distribution Inc.
 709B W Rusk St, Suite 322
 Rockwall, TX 75087
 United States
 Phone: 972-485-1700
 Website: www.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 4
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
OSHA defined hazard	Corrosive to respiratory tract

2.2 Label Elements

Signal Word DANGER	 GHS05 Corrosion	 GHS07 Exclamation
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2.3 Hazard Statements

Code	Hazard Statement
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H402	Harmful to aquatic life.
	Corrosive to the respiratory tract if inhaled.

2.4 Precautionary Statements

Category	Precautionary Statement
Prevention	P234 Keep only in original container.
Prevention	P260 Do not breathe dust.
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+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Response	P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
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.
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.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Chemical Name	CAS Number	Concentration	GHS Ingredient Classification
Sodium Hydroxide	1310-73-2	98-100%	Met. Corr. 1; Acute Tox. 4 (Oral); Skin Corr. 1A; Eye Dam. 1; STOT SE 3; Aquatic Acute 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.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary and if trained to do so. Immediately call a POISON CENTER or physician if symptoms occur.
Skin Contact	Immediately remove contaminated clothing and shoes. Rinse affected skin with plenty of water for at least 30

	minutes. Get immediate medical advice/attention. Wash contaminated clothing before reuse.
Eye Contact	Immediately rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
Ingestion	Rinse mouth. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Obtain emergency medical attention.

4.2 Most Important Symptoms and Effects, Acute and Delayed

Causes severe skin burns and eye damage. May be corrosive to the respiratory tract. Harmful if swallowed. Eye contact may cause permanent damage to the cornea, iris, or conjunctiva. Ingestion may cause burns or irritation of the mouth, throat, esophagus, and gastrointestinal tract.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Immediate medical attention is required for eye contact, ingestion, respiratory distress, or skin burns. Treat symptomatically. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

Subsection	Information
5.1 Extinguishing Media	Suitable extinguishing media: Water spray, water fog, foam, dry chemical, or carbon dioxide. Unsuitable extinguishing media: Do not use a heavy water stream, as it may spread material.
5.2 Special Hazards Arising from the Substance	Product is not considered flammable. Contact with metallic substances may release flammable hydrogen gas. Thermal decomposition may produce corrosive vapors and sodium oxides. Gases hazardous to health may form during fire.
5.3 Advice for Firefighters	Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Do not enter fire area without proper protective equipment, including self-contained breathing apparatus and full protective clothing. Prevent runoff from entering drains or watercourses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Subsection	Information
6.1 Personal Precautions, Protective Equipment, and Emergency Procedures	Do not breathe dust. Do not get in eyes, on skin, or on clothing. Evacuate unnecessary personnel. Use appropriate personal protective equipment as described in Section 8.
6.2 Environmental Precautions	Prevent entry into sewers, public waters, waterways, soil, and confined areas. Avoid release to the environment. Notify authorities if product enters waterways or sewer systems.
6.3 Methods and Materials for Containment and Cleaning Up	Isolate spill area. Contain solid spills with appropriate barriers. Recover product by vacuuming, shoveling, or sweeping while avoiding dust generation. Use HEPA vacuum or wet cleanup methods where appropriate. Transfer spilled material to a suitable labeled container for disposal. Do not return spilled product to original container 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	Do not get in eyes, on skin, or on clothing. Do not breathe dust. Minimize dust generation. Handle empty containers with care because they may still present a hazard. Wash hands and exposed areas before eating, drinking, smoking, and when leaving work. Always add product slowly to water. Never add water directly to dry product. Use caution because heat may be generated.
7.2 Conditions for Safe Storage, Including Incompatibilities	Keep container tightly closed when not in use. Store in a dry, cool, well-ventilated area. Store locked up. Store in original container or corrosion-resistant and/or lined container. Keep away from direct sunlight, moisture, acids, metals, oxidizers, and incompatible materials. Do not store in aluminum, glass, ceramic, or incompatible metal receptacles.
7.3 Specific End Use(s)	Industrial use, drain cleaner, grease trap treatment, soap making, and pH adjustment. Use only as directed and in accordance with applicable regulations.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Substance	Source	Exposure Limit
Sodium Hydroxide (CAS 1310-73-2)	OSHA PEL	2 mg/m ³ Ceiling
Sodium Hydroxide (CAS 1310-73-2)	ACGIH TLV	2 mg/m ³ Ceiling
Sodium Hydroxide (CAS 1310-73-2)	NIOSH REL	2 mg/m ³ Ceiling
Sodium Hydroxide (CAS 1310-73-2)	IDLH	10 mg/m ³

8.2 Exposure Controls

Appropriate engineering controls: Emergency eyewash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Use local exhaust where dust may be generated.

PPE Type	Recommendation
Eye/Face Protection	Chemical safety goggles and face shield.
Hand Protection	Chemical-resistant gloves. Nitrile, neoprene, butyl rubber, or other compatible gloves are recommended.
Skin/Body Protection	Chemical-resistant protective clothing, apron, and boots as needed.
Respiratory Protection	If exposure limits are exceeded, irritation occurs, or ventilation is inadequate, use a NIOSH-approved respirator suitable for caustic dust.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink, or smoke while using this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Property	Value
Physical State	Solid
Appearance	White flakes, pellets, beads, or micropearls
Odor	Odorless
Odor Threshold	No data available
pH	14 (5% solution)
Melting Point	318.4 C (605.12 F)
Freezing Point	318.4 C (605.12 F)
Boiling Point	Not applicable / no data available for product form
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability	Not flammable
Lower/Upper Flammable Limit	Not applicable
Vapor Pressure	No data available
Vapor Density	Not applicable
Relative Density	2.13 at 20 C
Density	2.13 g/cm ³ at 25 C
Solubility in Water	100% soluble / highly soluble
Partition Coefficient	No data available
Auto-Ignition Temperature	Not applicable
Decomposition Temperature	No data available
Viscosity	Not applicable
Explosive Properties	Not explosive
Oxidizing Properties	Not oxidizing
Molecular Formula	NaOH
Molecular Weight	40.01

SECTION 10: STABILITY AND REACTIVITY

Subsection	Information
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10.1 Reactivity	May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water, releasing heat. Adding an acid to a base or a base to an acid may cause a violent reaction.
10.2 Chemical Stability	Stable under recommended handling and storage conditions.
10.3 Possibility of Hazardous Reactions	Hazardous polymerization will not occur. Violent reaction may occur with acids. Exothermic reaction may occur with water.
10.4 Conditions to Avoid	Moisture, incompatible materials, acids, metals, direct sunlight, extremely high or low temperatures, and uncontrolled addition to water.
10.5 Incompatible Materials	Acids, metals, aluminum, zinc, tin, strong oxidizing agents, moisture, and some plastics, rubber, and coatings.
10.6 Hazardous Decomposition Products	Thermal decomposition may produce corrosive vapors and sodium oxides. 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)	140-340 mg/kg
Dermal LD50 (rabbit)	1350 mg/kg
Skin Corrosion/Irritation	Causes severe skin burns.
Serious Eye Damage/Irritation	Causes serious eye damage; may cause permanent injury.
Respiratory or Skin Sensitization	Not classified.
Germ Cell Mutagenicity	Not classified.
Carcinogenicity	Not classified as carcinogenic by OSHA, IARC, or NTP.
Reproductive Toxicity	Not classified.
STOT - Single Exposure	May cause respiratory irritation.
STOT - Repeated Exposure	Not classified.
Aspiration Hazard	Not classified.

11.2 Symptoms/Injuries After Exposure

Inhalation: May be corrosive to the respiratory tract. Skin contact: Causes severe irritation progressing to chemical burns. Eye contact: Causes serious and potentially permanent eye damage. Ingestion: Harmful if swallowed and may cause burns to mouth, throat, esophagus, and gastrointestinal tract.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Test	Result
Fish LC50	Approximately 125 mg/L, 96 hours
Crustacea EC50	Approximately 40.4 mg/L, 48 hours
General	Harmful to aquatic life. Avoid release to the environment.

12.2 Persistence and Degradability

No data available on biodegradability. Not readily biodegradable.

12.3 Bioaccumulative Potential

No data available. Bioaccumulation is not expected to be significant.

12.4 Mobility in Soil

High mobility. Product is highly soluble in water and may disperse in soil.

12.5 Other Adverse Effects

Do not discharge into drains, sewers, waterways, or the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Subsection	Information
13.1 Waste Treatment Methods	Dispose of contents/container in accordance with local, regional, national, and international regulations. Dispose through an approved hazardous waste facility. Do not discharge into drains, sewers, waterways, or soil. 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.
13.3 Contaminated Packaging	Empty containers may retain product residue. Follow label warnings even after container is empty. Dispose of empty containers through an approved waste handling or recycling facility.

SECTION 14: TRANSPORT INFORMATION

14.1 DOT (US)

Field	Value
UN Number	UN1823
Proper Shipping Name	Sodium 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 IMDG

Field	Value
UN Number	UN1823
Proper Shipping Name	Sodium Hydroxide, Solid
Hazard Class	8
Packing Group	II
Marine Pollutant	No
EmS Fire	F-A
EmS Spillage	S-B

14.3 IATA

Field	Value
UN Number	UN1823
Proper Shipping Name	Sodium Hydroxide, Solid
Hazard Class	8
Packing Group	II
ERG Code	8L
Passenger and Cargo Aircraft	Allowed with restrictions
Cargo Aircraft Only	Allowed with restrictions

14.4 TDG

Field	Value
UN Number	UN1823
Proper Shipping Name	Sodium Hydroxide, Solid
Hazard Class	8
Packing Group	II

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

Regulation	Status
OSHA Hazard Communication Standard	Hazardous chemical under 29 CFR 1910.1200

TSCA	Sodium Hydroxide is listed on the TSCA inventory; status active
CERCLA	Sodium Hydroxide Reportable Quantity: 1000 lb
SARA 302	Not listed
SARA 304	Not regulated
SARA 311/312	Applicable
SARA 311/312 Hazard Categories	Physical hazard - corrosive to metals; Health hazards - acute toxicity, skin corrosion, serious eye damage, STOT single exposure
SARA 313	Not listed
Clean Air Act	Not regulated
Clean Water Act	Listed hazardous substance
Safe Drinking Water Act	Not regulated

15.2 US State Regulations


New Jersey Right-to-Know: Listed. Pennsylvania Right-to-Know: Listed. Massachusetts Right-to-Know: Listed. California Proposition 65: This product is not known to contain chemicals listed as carcinogens or reproductive toxins under California Proposition 65.

SECTION 16: OTHER INFORMATION

16.1 Issue and Revision Information

Field	Value
Issue Date	12-02-2025
Revision Date	12-26-2025
Version	02

16.2 NFPA Rating

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

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 Labeling of Chemicals (GHS), as adopted by OSHA.

16.5 Full Text of Hazard Statements

Code	Full Text
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation
H402	Harmful to aquatic life

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 or completeness of this information.

This Safety Data Sheet is provided solely for the purpose of compliance with applicable health, safety, and environmental regulations. It does not constitute a specification or guarantee of product properties.

HBG Distribution Inc. shall not be liable for any damages resulting from handling, use, storage, or disposal of the product. It is the responsibility of the user to ensure safe conditions of use and compliance with all applicable laws and regulations.