ANDERSON CHEMICAL COMPANY

Safety Data Sheet

Issue Date 2024-01-12 **Revision Date** 2024-01-12 **Version** 1

1. Identification of the substance/preparation and of the company/undertaking

Product Name EDGE
UN/ID No. UN1824
Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Dishmachine detergent
Uses advised against No information available

Supplier Address

Anderson Chemical Company, 325 South Davis Avenue, Litchfield, MN 55355 (320-693-2477)

Emergency telephone number

Chemtrec 1-800-424-9300

2. Hazards identification

Classification

OSHA Regulatory Status

Skin Corrosion/Irritation	Category 1 Sub-category B
Serious Eye Damage/Irritation	Category 1
Corrosive to Metals	Category 1

Label Elements

Signal word: **Danger**

Hazard Statements
Causes severe skin burns and eye damage.
May be corrosive to metals.

Precautionary Statements - Prevention
Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/ protective clothing/eye protection/face protection. Keep only in original container.

Precautionary Statements - Response
Immediately call a POISON CENTER or doctor/physician. Specific treatment (see Section 4 on the SDS). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove victim to fresh air and keep comfortable for breathing. IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Absorb spillage to prevent material damage.

Precautionary Statements - Storage
Store locked up.
Store in a corrosive resistant container.

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC)
Other Information

3. Composition/information on ingredients

Chemical Name	CAS Number	% by Weight
Sodium Hydroxide	1310-73-2	10 - 15

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First aid measures

General advice
Get immediate medical attention.

Eye contact
Flush immediately with water for 15 minutes. Lift upper and lower eyelids for complete rinsing.

Skin Contact
Flush with water for 15 minutes. Remove contaminated clothing and wash before reuse. Inhalation

Inhalation
Remove to fresh air. Administer oxygen if breathing is difficult. If breathing has stopped, give artificial respiration.

Ingestion
Rinse mouth with water. Give water to dilute. Do not induce vomiting. Never give anything by mouth to a semi-comatose, comatose, convulsing or unconscious person.

Self-protection of the first aider
Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms
Inhalation of mists can cause severe respiratory irritation. Symptoms may include coughing, choking and wheezing. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring. Corrosive to the eyes and may cause severe damage including blindness. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns.

Indication of any immediate medical attention and special treatment needed

Note to physicians
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 known.

Specific hazards arising from the chemical
Contact with most metals will generate flammable hydrogen gas. Contact with water will generate considerable heat.

Hazardous combustion products
Toxic fumes of sodium oxide.

Explosion Data

Sensitivity to mechanical impact	None
Sensitivity to static discharge	None

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. Use water spray to cool fire exposed containers. Move containers from fire area if you can do it without risk.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions
Evacuate nonessential personnel. Ventilate area. Wear appropriate personal protection equipment.

Environmental precautions
See Section 12 for additional ecological information. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

Methods for containment
Completely contain spilled material with dikes or sand bags, etc. Use water spray to cool fire exposed containers. Move containers from fire area if you can do it without risk.

Methods for cleaning up
Recover as much material as possible into containers for disposal or reuse. Remaining material may be diluted with water and neutralized. Flush spill area with water. Neutralization products, both solid and liquid, must be recovered for disposal.

7. Handling and storage

Precautions for safe handling

Advice on safe handling
Do not get in eyes, on skin, or clothing. Do not breathe vapors or mists. Do not ingest. Wash thoroughly after handling. Wear protective clothing/ equipment. Use with adequate ventilation.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep containers tightly closed and properly labeled. Store in a cool, dry, well-ventilated area, away from incompatible materials. Wash hands before eating, drinking, using tobacco, applying make-up or using the toilet. Do not store, use, and/or consume foods, beverages, tobacco in areas where this product is stored. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Incompatible materials
Oxidizing agent. Acids. Bases. Water. Organic material. Reducing sugars. Metals. (Aluminum, magnesium, zinc, copper, lead, tin and their alloys). Halogenated compounds.

8. Exposure controls/personal protection

Control parameters

Exposure Guideline

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Hydroxide 1310-73-2	Ceiling: 2 mg/m 3	TWA: 2 mg/m 3 (vacated) Ceiling: 2 mg/m 3	IDLH: 10 mg/m 3 Ceiling: 2 mg/m 3

Appropriate engineering controls

Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection
Eye protection is recommended.

Skin and body protection
No special technical protective measures are necessary.

Respiratory protection
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations
Wash contaminated clothing before reuse.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Liquid
Color	Red
Odor	Orderless
Odor threshold	No information available
pH	12.2-12.8, pH 1% solution
Melting point/freezing point	No information available
Boiling point / boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability upper limit in air	No information available
Flammability lower limit in air	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific Gravity	1.202 - 1.222
Water solubility	Soluble in water
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available

10. Stability and reactivity

Reactivity
Concentrated solutions react violently with water, generating considerable heat. Contact with metals may evolve flammable hydrogen gas.

Chemical stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
NEVER add water to product. ALWAYS add product, with constant stirring, slowly to surface of water to minimize heat generation and spattering. Mixing with acid or incompatible materials may cause splattering and release of large amounts of heat. Will react with some metals forming flammable hydrogen gas. Carbon monoxide gas may form upon contact with reducing sugars or food and beverage products in enclosed spaces.

Conditions to avoid
Toxic fumes of sodium oxide.

Incompatible materials
Oxidizing agent. Acids. Bases. Water. Organic material. Reducing sugars. Metals. (Aluminum, magnesium, zinc, copper, lead, tin and their alloys). Halogenated compounds.

Hazardous Decomposition Products

11. Toxicological information

Information on likely routes of exposure

Product Information No information available
Inhalation Inhalation of mists can cause severe respiratory irritation. Symptoms may include coughing, choking and wheezing.
Eye contact Corrosive to the eyes and may cause severe damage including blindness. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Skin Contact Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring.
Ingestion May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Hydroxide 1310-73-2	-	= 1350 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms See section 4.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available
Germ cell mutagenicity No information available
Carcinogenicity No information available

Chemical Name	ACGIH	IARC	NTP	OSHA

Reproductive toxicity No information available
STOT - single exposure No information available
STOT - repeated exposure No information available
Aspiration hazard No information available

Numerical measures of toxicity - Product Information

12. Ecological information

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium Hydroxide 1310-73-2	-	45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	-

Persistence and degradability No information available
Bioaccumulation No information available
Other adverse effects No information available

13. Disposal considerations

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging Do not reuse container.

Chemical Name	California Hazardous Waste Status
Sodium Hydroxide 1310-73-2	Toxic, Corrosive

14. Transport information

DOT Regulated
UN/ID No. UN1824
Proper shipping name Sodium Hydroxide Solution
Hazardous ingredients
Hazard class 8
Packing group II

15. Regulatory information

US Federal Regulations

SARA 311/312 Hazards

Skin Corrosion/Irritation
Serious Eye Damage/Irritation
Corrosive to Metals

CWA (Clean Water Act)

This product contains a substance regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	Reportable Quantities	Toxic Pollutants	Priority Pollutants	Hazardous Substances
Sodium Hydroxide 1310-73-2	1000 lb	-	-	X

CERCLA

This material, as supplied, contains substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material Chemical Name Hazardous

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium Hydroxide 1310-73-2	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION

NFPA	**Health hazards**	3	**Flammability**	0	**Instability**	0	**Physical and Chemical Properties**		
HMIS	**Health hazards**	3	**Flammability**	0	**Physical hazards**	0	**Personal protection**	X	

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Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
End of Safety Data Sheet