SAFETY DATA SHEET

This SDS complies with 29 CFR 1910.1200 (Hazard Communication Standard)
IMPORTANT: Read this SDS before handling & disposing of this product. Pass this information on to employees, customers, and users of this product.

1. Identification

1.1. Product identifier

Product Identity	All Temp Detergent
Alternate Names	Perform XS
Product Code	

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use	Dishwashing Mixture, Highly Alkaline Material
Application Method	See Label Instructions

1.3. Details of the supplier of the safety data sheet

Company Name	United Formulas 601 6th St SW Unit 5 Great Falls, MT 59404
Emergency	
24 hour Emergency Telephone No.	Infotrac: 1 800-535-5053 Emergency: (406) 727-4144
Customer Service: Diamond Products Inc.	(406) 727-4144

2. Hazard(s) identification

2.1. Classification of the substance or mixture

H290	Metal corrosion Category 1
H302	Harmful if swallowed
H314	Skin Corrosion Category 1A
H318	Serious Eye Damage Category 1

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

DANGER

[GHS Physical Hazards]:

H290 May Be corrosive to metals.

[GHS Health Hazards]:

H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H370 Causes damage to respiratory system by inhalation.

[GHS Precautionary Hazards]:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash skin and contaminated clothing thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P280 Wear suitable protective gloves / protective clothing / eye protection / face protection.

[Response]:

P301+P310
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P305+P340
IF INHALED: Remove victim to fresh air and keep at rest in a position.
P310
Immediately call a POISON CENTER or doctor/physician.
P330
Rinse mouth if ingested.
P405
Store locked up.
P501
Dispose of contents/container in accordance with local/regional/national/international regulations.

[Classification System]:
NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme.
[NFPA ratings (scale 0-4)]:
Health = 3, Fire = 0, Reactivity = 1
[HMIS ratings (scale 0-5)]:
Health = 3, Fire = 0, Reactivity = 1

3. Composition/Information on Ingredients

[Chemical Characterization]:	Mixtures
[Description]:	Mixture of the substances listed below with nonhazardous additions.

Component	Percent	CAS#	EC#	GHS Class
Sodium Hydroxide	15-30	1310-73-2	215-185-5	Metal Corr Cat 1, Skin Corr. Cat. 1A Eye Dam Cat. 1, Aquatic Acute Cat 3
Ethylenediamine Tetraacetate Na salt	1-5	64-02-8	200-573-9	Skin Irrit Cat 2, Eye Dam Cat 2A
Dispersant Polymer	1-5	Trade Secret	Proprietary	Not Regulated under GHS

Corr = Corrosion, Dam = Damage, Cat = Category, Tox = Toxicity, Irrit = Irritant.

4. First Aid Measures

[Eye Contact]: Immediately flush the eyes with water for at least 15 minutes. Hold eyelids open to ensure adequate flushing. Get immediate medical attention.

[Skin Contact]: Remove contaminated clothing and shoes. Wash affected skin area with soap and water. Delayed skin damage is possible if the product is not completely washed off. Get immediate medical attention.

[Swallowing (Ingestion)]: If ingested, dilute swallowed material by drinking water. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Get immediate medical attention.

[Inhalation]: Remove to fresh air. Get immediate medical attention.

[General Measures]: Never give anything by mouth to an unconscious person. Rescue personnel must wear appropriate protective equipment during removal of victims from contaminated areas. Treat symptomatically and supportively.

5. Fire-fighting measures

5.1. Extinguishing media

Water spray, fog, carbon dioxide, foam, dry chemical

5.2. Special hazards arising from the substance or mixture

Product is not flammable.

Product is not explosive.

Reactivity to Fire: Thermal decomposition generates: Corrosive vapors. If the product is involved in a fire, it can release explosive hydrogen gas. When heated to decomposition, emits toxic fumes. May be corrosive to metals.

5.3. Advice for fire-fighters

Precautionary Measures: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Potassium oxides. May liberate toxic gases. Sodium oxides. Phosphorous oxides. Nitrogen oxides. Carbon oxides (CO, CO2). Explosive Hydrogen gas.

Other Information (fire): Do not allow run-off from firefighting to enter drains or water courses.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Restrict access to keep out unauthorized or unprotected personnel. Wear protective equipment. Avoid inhalation and direct contact.

6.2. Environmental precautions

Keep spilled material away from sewage/drainage systems and waterways. This product contains a U.S. EPA Reportable Quantity (RQ) substance. If amounts exceeding the Reportable Quantity are released, notification of the National Response Center (800) 424-8802 is required. See section15 for more information.

6.3. Methods and material for containment and cleaning up

All clean-up personnel must be properly trained. Confine the spill and remove incompatible materials and ignition sources. Ensure adequate ventilation. Secure the source of the leak if conditions are safe. Neutralize spill and collect using an appropriate absorbent material such as clay or vermiculite. Place waste in an appropriate container for disposal. Use care during clean-up to avoid exposure to the material and injury from broken containers.

7. Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink, or smoke when using this product. Wash hands and forearms thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Store in a dry, cool, and well-ventilated place. Keep container closed when not in use. Keep/store away from extremely high or low temperatures, direct sunlight, heat, and incompatible materials (Strong acid, Strong oxidizers).

8. Exposure controls and personal protection

TLV (Threshold Limit Value) : The TLV in section in section III is the ACGIH/TLV-TWA (threshold limit value/time weighted average concentration for an eight hour work day). The STEL is the short term exposure limit and the (Ceil) is the ceiling limit.

Component	ESHA PEL-TWA	ACGIH TLV-Ceiling	ACGIH-STEL
Sodium Hydroxide	2 mg/m3 (Ceiling)	2mg/m3	2 mg/m3 (Ceiling)
Ethylenediamine Tetraacetate Na salt	Not Established	Not Established	Not Established
Dispersant Polymer	Not Established	Not Established	Not Established

8.2. Exposure controls

Eyes:	Wear chemical splash goggles or face shield.
Skin:	Minimize contact with product. Wear chemical resistant coveralls, boots, gloves, apron and/ or suitable long-sleeved clothing.
Respiratory:	In case of brief exposure use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.
	Wear plastic or rubber-coated gloves.
Engineering Controls	Provide adequate ventilation. Emergency eyewash and safety shower facilities should be available in the immediate work area.
Other Work Practices	Wash hands thoroughly after handling. Keep away from all food stuffs, beverages, and feed. Do not eat, drink, or smoke in work area.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	Clear Red Liquid with Mild Odor
Odor	Mild Odor
Odor threshold	Not Available
pH	>13.5
Melting point / freezing point	Not Available
Initial boiling point and boiling range	Not Available
Flash Point	Not Applicable
Evaporation rate (Ether = 1)	Not available
Flammability	Nonflammable, Noncombustable
Upper/lower flammability or explosive limits	**Lower Explosive Limit:** Not applicable
	Upper Explosive Limit: Not applicable
Vapor pressure (Pa)	Not available
Vapor Density	Not available
Specific Gravity	1.19
Solubility in Water	Soluble in Water
Partition coefficient n-octanol/water (Log Kow)	Not Available
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
Viscosity (cSt)	Not available
VOC Content	Not available

10. Stability and reactivity

10.1. Reactivity

Thermal decomposition generates: Corrosive vapors. If the product is involved in a fire, it can release explosion hydrogen gas. When heated to decomposition, emits toxic fumes. May be corrosive to metals.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Heat. Combustible materials. Incompatible materials.

10.5. Incompatible materials

Strong acids. Strong oxidizers. Soft metals. May be corrosive to metal.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO2). Thermal decomposition generates: Corrosive vapors. Toxic gases. Hydrogen gas. Nitrogen oxides. Phosphorous oxides. Sodium oxides. Potassium oxides.

11. Toxicological information

Toxicological Information:	Sodium Hydroxide
Acute Toxicity:	Draize test, rabbit, eye: 400 ug Mild. Draize test, rabbit, eye: 1% Severe. Draize test, rabbit, eye: 50 ug/24H Severe. Draize test, rabbit, eye: 1 mg/24H Severe. Draize test, rabbit, skin: 500 mg/24H Severe.
Eye Contact:	Causes severe eye damage.
Skin Contact:	Causes skin burns. Onset of symptoms may be delayed after exposure.
Inhalation:	Corrosive to respiratory tract.
Ingestion:	Corrosive to respiratory tract.
Carcinogenicity:	The components of this product are not classified as carcinogenic by OSHA, NTP IARC or CA Prop 65.

Toxicological Information:	Ethylenediamine Tetraacetate Na Salt
Acute Toxicity:	LD50 Oral (rat): 630 - 1,260 mg/kg,
Inhalation LC50:	No data available
Dermal LD50:	No data available
Other Information on Acute Toxicity:	No data available

Toxicological Information:	Dispersant Polymer
Acute Toxicity:	LD50 Oral (rat): > 5,000 mg/kg, LD50 Dermal (Rabbit): > 5,000 mg/kg.
Skin Irritation:	Slight Irritation
Eye Irritation:	Slight Irritation
Sensitization:	Not a sensitizer
Carcinogenicity:	No data available
Reproductive Toxicity:	No data available

12. Ecological information

Ecological Information:	Sodium Hydroxide
Ecotoxicity:	Immobilization EC50/48h/Daphnia-40.38 mg/l. LC50 /96h/Mosquito fish-125 mg/l.
Environmental:	No Information found.
Physical:	No Information found.
Other:	No relevant information found.
Persistence & Biodegradability:	No relevant information found.
Bioaccumulative Potential:	No relevant information available.
Notes:	Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted products or large quantities of this product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or un-neutralized. Rinse off larger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organism.

Ecological Information: Ethylenediamine Tetraacetate Na Salt
Ecotoxicity: No data available
Persistence & Biodegradability: No data available
Bioaccumulative Potential: No data available

Ecological Information: Dispersant Polymer
Acute Toxicity to Fish: LC50 Oncorhynchus mykiss (rainbow trout) 96 Hour 700 mg/l OECD
LC50 Bluegill sunfish (Lepomis macrochirus) 96 Hour >1,000 mg/l OECD
LC50 Zebra fish (Danio/Brachy danio rerio) 96 Hour >200 mg/l OECD
Acute Toxicity to Invertebrates: EC50 Daphnia magna (Water flea) 48 Hour >1,000 mg/l OECD.
Acute Toxicity to Algae: EC50 Algae 96 Hour Growth rate >180 mg/l OECD.

Persistence & Biodegradability: No data available
Bioaccumulative Potential: No data available

13. Disposal considerations

Waste Disposal Recommendations

This product must be disposed of in accordance with Federal, state and local environmental regulations. Discarded materials may be considered hazardous waste due to pH/corrosivity. It is the responsibility of the product user to determine at the time of disposal whether a material containing, or derived from this product, should be classified as a hazardous waste.

Ecology-Waste Materials

This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

14. Transport information

DOT/IMDG/ IATA Proper Shipping Name:	**UN1824, SODIUM HYDROXIDE, SOLUTION 8 PGII**
Hazard Class and Label:	**8 (Corrosive)**
UN Number:	**UN 1824**
Packaging Group:	**PGII**
EPA Reportable Quantity (RQ):	**1000 LBS. (454 KG) as Sodium or Potassium Hydroxide 100%.**
Marine Pollutant:	**Not Listed.**
Emergency Response Guide:	**ERG-154**

15. Regulatory information

US Federal Regulatory Information:
Listed Carcinogen: Not Listed
TSC Status: The ingredients of this product are listed on TSCA (Toxic Substances Control Act) inventory (40CFR 710.)
SARA Section 302: None
SARA Section 311/312: Immediate (acute) health hazard.
Hazard Class SARA Section 313: Not Listed
NFPA Health: 3
NFPA Flammability: 0
NFPA Reactivity: 1

Canadian Regulatory Information

WHMIS Category:	Class E: Corrosive: Sodium Hydroxide, Potassium Hydroxide Class D2B: Materials causing other toxic effects (TOXIC): Ethylenediamine Tetraacetate Na Salt
Domestic Substances List (DSL):	Listed
Ingredients Disclosure List:	Listed, this product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the sds contains all the information required by the CPR.

16. Other information

CERCLA:	Comprehensive Environmental Response, Compensation, and Liability Act.
EINECS:	European Inventory of Existing Commercial Chemical Substances
IMDG:	International Maritime Code for Dangerous Goods
IARC:	International Agency for Research on Cancer
IATA:	International Air Transportation Association
ACGIH:	American Conference of Governmental Industrial Hygienists
NFPA:	National Fire Protection Association (USA)
NTP:	National Toxicology Program
SARA:	Superfund Amendments and Reauthorization Act
TSCA:	Toxic Substances Control Act
HMIS:	Hazardous Materials Identification System (USA)
WHMIS:	Workplace Hazardous Materials Information System
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
STOT:	Systemic Target Organ Toxicity
DATE PREPARED:	MAR 1, 2018
DATE REVISED:	SEP 09, 2025

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