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Version: 2

SECTION 1: Identification**Product identifier:** Striker**Other means of identification:** Striker – Oven & Grill Cleaner**Product code:** 78107, 78108.**UN/ID No:** NA 1760**Recommended use:** Warewashing.**Recommended restrictions:** Not for personal care.**Supplier/Distributor information:**

Company name: Triple S
Address: 2 Executive Park Drive
Billerica, MA 01862
URL: www.triple-s.com
Email: info@triple-s.com
Telephone: (978)-667-7900
Emergency phone number: (888)-779-1339 (24 hr)

SECTION 2: Hazard(s) identification**Classification of the Substance or Mixture:****Physical hazards**

Corrosive to metals Category 1

Health hazards

Acute toxicity; dermal/oral: Category 4
Skin corrosion/irritation: Category 1C
Eye damage/irritation: Category 1

Label elements:**Signal word:** Danger**Hazard statements**

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

SECTION 2: Hazard(s) identification (continued)**Precautionary statements****Prevention:**

- 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.
 P234 Keep only in original container.
 P260 Do not breathe dust/fume/gas/mist/vapors/spray.
 P262 Do not get in eyes, skin, or on clothing.
 P264 Wash hands, arms, face and exposed skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this products.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

- P301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.

Storage:

- P405 Store locked up.
 P406 Store in corrosive resistant container or in a container with a resistant inner liner.

Disposal:

- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise Classified (HNOC): Not classified.

SECTION 3: Composition/information on ingredients**Substance/Mixtures:**

Chemical name	CAS No.	Concentration (%)
Water	7732-18-5	60-90
Sodium hydroxide	1310-73-2	0-5
Diphosphoric acid, tetrapotassium salt	7320-34-5	0-5
Dipropylene glycol monomethyl ether	34590-94-8	0-5
Dodecyl benzene sodium sulfonate	2555-30-0	0-5

Section 4: First-aid measures

Description of first aid measures

General advice: Remove victims from the danger zone without endangering your own safety. Remove contaminated clothing (including underwear and shoes) immediately.

Inhalation: Bring accident victims out into the fresh air. If not breathing, give artificial respiration. **WARNING:** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. If patient has difficulty breathing, administer oxygen, keep the patient calm and warm. In case of unconsciousness place patient stably in side position for transportation. Call a physician immediately.

Skin contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use. After contact with small amounts get medical attention if any discomfort or irritation continues. For large amounts, obtain medical attention.

Eye contact: Immediately flush eyes with gentle but large stream of water or eye wash solution for at least 15 minutes, lifting lower and upper eyelids occasionally. If possible remove any contact lenses and continue to wash. Call a physician, immediately.

Ingestion: If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. **DO NOT** induce vomiting unless directed to do so by medical personnel. Call a physician, immediately.

Most important symptoms/effects, acute and delayed:

Notes to physician: The severity of the symptoms described will vary dependent on the concentration and the length of exposure. The substance is toxic to the nervous system, lungs, and mucous membranes.

Inhalation: Excessive inhalation of vapors can cause nasal and respiratory damage, dizziness, weakness, fatigue, nausea, vomiting, diarrhea, and possible unconsciousness. Severe exposures can lead to a chemical pneumonitis.

Ingestion: Corrosive. May cause sore throat, abdominal pain, nausea, and severe burns of the mouth, throat, and stomach. May affect the urinary system, liver, and blood. Severe exposures can lead to shock, circulatory collapse, and death.

Skin contact/Skin irritation: Contact with vapors, mists, and liquid are corrosive to the skin, and may cause permanent skin damage, redness, pain and severe skin burns.

Eye contact: Liquid and mist are corrosive to the eyes. May cause redness, pain, blurred vision, eye burns, and permanent eye damage. Brief contact of the liquid causes severe eye burns and possible blindness. May cause corneal damage, conjunctivitis, and/or lachrymation.

Indication of immediate medical attention and special treatment needed, if necessary:

Cases of eye contact and ingestion should be treated immediately. Have facilities in place to wash skin and eyes in case of exposure. Ingestion damages mucous membranes and tissues of gastro-intestinal tract.

SECTION 5: Fire-fighting measures

Suitable extinguishing media: In case of fire use carbon dioxide (CO₂), foam, extinguishing powder. Use any means suitable for extinguishing surrounding fire. Applying water to this product may cause splattering of this corrosive liquid. Water spray on large fires may be ineffective but may be used to keep fire-exposed containers cool. If water is used, use in abundance to control heat.

Unsuitable extinguishing media: Do not use water jet as this can spread the fire. Do not use carbon dioxide in enclosed spaces with insufficient ventilation.

Specific hazards arising from the chemical: Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Move containers from fire area if you can do so without risk. Product containers can melt in the heat of a fire. Packaging materials will be combustible and provide fuel for the fire.

Special protective equipment and precautions for fire-fighters: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. During fire-fighting respirator with independent air-supply and airtight garment is required. Fight fire in early stages if safe to do so. Provide ventilation and be wary of hydrogen generation upon reactions with some metals.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate area of leak or spill. Ensure adequate ventilation/exhaust extraction. Put on protective equipment (see Section 8). Have emergency procedures in place for treating spillages, evacuating the area and informing the emergency services if necessary. Restrict access to the area until the spillage is treated, if large amounts of vapors are produced that will be hazardous to others, evacuate the area. Non-emergency personnel should be kept away from the area of spillage.

Environment precautions: Clean up any spillages immediately; prevent material from spreading and entering drains or sewage systems. Large spillages or uncontrolled discharge to water systems must be alerted to the environmental agency or other regulatory body.

Methods and materials for containment and cleaning up: Contain and recover liquid when possible. Small spillages should be absorbed with an inert, non-combustible absorbent. Large Spillages: Dam and absorb spillages with sand, earth or other inert material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Containers with collected spillage must be properly labeled with correct contents and hazard symbol. Flush area clean with lots of water. Be aware of potential for surfaces to become slippery. Ventilate area and allow drying before allowing access.

Reference to other sections: Refer to sections 8 and 13 for additional information.

SECTION 7: Handling and storage

Precautions for safe handling: Keep in a closed container and protect from physical damage. Store in a cool, dry, and ventilated area. Keep away from sources of heat, moisture, incompatibilities, and away from direct sunlight. When diluting, alkali should always be added slowly to water in small amounts. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product. Do not wash out container and use it for other purposes. Avoid ingestion and/or inhalation of any vapors/mists if produced, and any contact with skin or eyes. Wash at the end of each work shift, before eating, drinking, smoking and using the toilet. Do not eat, drink or smoke when handling. Remove contaminated clothing/footwear/equipment before entering eating areas or places that would expose others to the product. Avoid spilling the product. Do not use in areas close to drainage systems unless measures are in place to prevent access of product. Ensure emergency procedures are in place to treat spillages and cope with other situations such as evacuation. Provide eye washing and skin washing facilities, when handling large amounts a safety shower is recommended.

Conditions for safe storage, including any incompatibilities: Store in closed original container at temperatures between 40°F and 80°F. If the product is transferred to another container, this should be made of a compatible material to the original container. Store away from heat, direct sunlight and moisture. Store in a stable situation to avoid spillages. It is advisable to store in a bunded area or use other protective measures such as a sump pallet or storage tray.

Keep away from: strong acids, combustible materials and metals.

Suitable packaging material: stainless steel, nickel, polyethylene, polypropylene, glass and stoneware/porcelain.

Non suitable packaging material: lead, aluminum, copper, zinc, bronze, and tin.

SECTION 8: Exposure control/personal protection

Control Parameters

Occupational exposure limits

US.OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Chemical Name	CAS-No.	Type	Value	
Dipropylene glycol monomethyl ether	34590-94-8	PEL	100 ppm	600 mg/m ³
		TWA	100 ppm	600 mg/m ³
		STEL	150 ppm	900 mg/m ³
Sodium Hydroxide	1310-73-2	PEL	2 mg/m ³	
Diphosphoric acid, tetrapotassium salt	7320-34-5	TWA	15 mg/m ³ (total dust) 8hr	
			5 mg/m ³ (respirable) 8hr	

U.S. ACGIH Threshold Limit Values

Chemical Name	CAS-No.	Type	Value
Dipropylene glycol monomethyl ether	34590-94-8	TWA	100 ppm
		STEL	150 ppm
Sodium Hydroxide	1310-73-2	TLV	2 mg/m ³
Diphosphoric acid, tetrapotassium salt	7320-34-5	TWA	10 mg/m ³ (inhalable) 8hr
			3 mg/m ³ (respirable) 8hr

SECTION 8: Exposure control/personal protection (continued)

Appropriate engineering controls:

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the defined exposure limit requirements or guidelines. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition for details.

Individual protection measures, such as personal protective equipment (PPE)

Eye Protection: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Hand protection: Wear protective gloves. Butyl rubber, rubber (natural, latex), nitrile, polyvinyl chloride (PVC). Be aware that latex gloves can produce an allergic reaction in sensitive individuals. Gloves should have a breakthrough time sufficient for the amount of handling but allow dexterity for safe movement and handling. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Gloves showing signs of degradation should be changed to avoid skin contamination. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. When removing used gloves apply proper technique by avoiding skin contact with the outer surface. When packages of the product are being handled during storage or transport it is advisable to wear protective gloves to prevent damage to the skin.

Personal Respirators (NIOSH Approved): If the exposure limit is exceeded, a full face piece respirator with high efficiency dust/mist filter may be worn up to 50 times the exposure limit. Wear suitable respiratory protection when vapors or mists are produced if the Workplace Exposure Limit is exceeded and there is insufficient ventilation or extraction. For emergencies or instances where the exposure levels are not known, use a full face piece positive-pressure, air-supplied respirator. Respirator must be fitted with a cartridge suitable for the chemical of concern. Consult with the supplier as to the compatibility of the equipment with the chemical of concern. CAUTION: Air purifying respirators do not protect the user in oxygen deficient atmospheres, use air supplied system.

Thermal Hazards: Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations: Wash hands, change out of clothes as soon as possible. Wash clothes. Shower or bathe as soon as possible.

Other protective measures: Have an eye bath and safety shower close by.

SECTION 9: Physical and chemical properties

Appearance:	Liquid
Color:	Clear
Odor:	No odor
Odor Threshold:	No data available
pH:	13.0 ± 0.5
Melting point/range:	No data available
Boiling point/range:	No data available

SECTION 9: Physical and chemical properties (continued)

Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability of explosive limits:	No data available
Vapour pressure (mm Hg):	No data available
Vapour density (Air=1):	No data available
Relative density:	No data available
Solubility(ies):	Excellent
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, dynamic:	No data available
Other Information:	This product contains phosphates.

SECTION 10: Stability and reactivity

Reactivity and/or chemical stability: Produces an exothermic reaction with water, produces a violent exothermic reaction with strong acids and reacts with some metals to release hydrogen. If stored and handled in accordance with standard industrial practices no hazardous reactions are known. Product is very stable under normal conditions.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Avoid heat, freezing, direct sunlight, and moisture. Avoid storage with incompatible materials. Avoid storage in freezing conditions. Avoid storage near unprotected drainage systems. Avoid storage in an unstable manner or in a situation that would result in exposure to the product. It is advisable to store the product within some form of containment to prevent spillages reaching drainage systems. Do not allow the storage container to be left exposed to the atmosphere.

Incompatible materials: Oxidizing or reducing materials, mineral acids, combustible materials, strong acids, reactive metals (i.e., aluminum, tin, zinc, and their alloys) hydrocarbons. Additionally, it is incompatible with organic halogen compounds, organic nitro compounds. Avoid contact with leather and wool. Reactions with various food sugars may form carbon monoxide.

Hazardous decomposition products: Reacts with (some) metals and releases highly flammable gases/vapors (hydrogen). On heating: releases corrosive gases/vapors. No hazardous decomposition if stored and handled correctly.

SECTION 11: Toxicological information

Acute toxicity: Toxicological testing has not been conducted with this material. The toxicology information listed below is based on the components of this material.

Category 4- Oral: Harmful if swallowed.

Category 4- Dermal: Harmful in contact with skin.

SECTION 11: Toxicological information (continued)

Sodium Hydroxide - Acute Toxicity Estimate (ATE)	
Oral LD ₅₀ 500 mg/kg (Rat)	Dermal LD ₅₀ 1,350 mg/kg (Rabbit)

Dipropylene glycol monomethyl ether - Acute Toxicity Estimate (ATE)		
Oral LD ₅₀ >5,000 mg/kg Rat	Dermal LD ₅₀ 9,510 mg/kg Rabbit	Inhalation LC ₅₀ 3,350 mg/kg - 7 hours Rat

Diphosphoric acid, tetrapotassium salt - Acute Toxicity Estimate (ATE)			
Oral LD ₅₀ 2,980 mg/kg (Rat)	Dermal LD ₅₀ >7,9409 mg/kg (Rabbit)	Eye Irritation 11.1/110.0 (Rabbit)	Skin Irritation 0.5/8.0 - 24-hr. (Rabbit)

Skin Corrosion/irritation: Category 1C: Causes severe skin burns and eye damage due to an alkaline pH.

Serious eye damage/irritation: Category 1: Causes serious eye damage due to an alkaline pH.

Respiratory or skin sensitization: Classification not possible.

Germ cell mutagenicity: Classification not possible. **Carcinogenicity:** Classification not possible.

Reproductive toxicity: Classification not possible.

Specific Target Organ Toxicity - Single Exposure: Classification not possible.

Specific Target Organ Toxicity - Repeated Exposure: Classification not possible.

Aspiration hazard: Classification not possible.

SECTION 12: Ecological information

Toxicity: Do not allow to escape into waterways, wastewater or soil. Ecotoxicological studies of the product are not available. Please find below the data available to us from raw materials:

Aquatic ecotoxicity:

Dipropylene glycol monomethyl ether		
Aquatic Invertebrate Acute Toxicity	Aquatic Plant toxicity	Fish Acute & Prolonged Toxicity
LC ₅₀ (Daphnia) 48 hrs Water Flea 1,919 mg/L	EbC ₅₀ (Algae) 96 hrs Selenastrum capicornutum Biomass growth inhibition >100 mg/L	LC ₅₀ (Pimephales promelas) Fathead Minnow, 96 hrs >10,000 mg/L

SECTION 12: Ecological information (continued)

Persistence and degradability: Sodium hydroxide will rapidly dissolve and dissociate in water.

Bioaccumulative potential: Accumulation in organism is not to be expected.

Mobility in soil: High water solubility indicates that sodium hydroxide will be found predominately in aquatic environment. During movement through soil some ion exchange will occur. Also, some of the hydroxide may remain in the aqueous phase and will move downward through soil in the direction of groundwater flow. Sodium hydroxide does not cause biological oxygen deficit.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

General information

Do not allow unauthorized disposal to the environment. If operators are exposed to vapors during the disposal process then suitable respiratory protection should be worn. All other personal protective equipment as described in section 8 should be worn.

Disposal methods:

Avoid unauthorized disposal. Do not dump into any sewers, on the ground, or into any body of water. All disposal practices must be in compliance with federal, state/provincial and local laws and regulations. For a small spill, immediately hose down with cool water and dispose to drain. For a large spill, dike, collect and contact local authorities about disposal.

SECTION 14: Transport information

UN Number:	NA 1760
UN Proper Shipping Name:	Compound, Cleaning liquid (Sodium Hydroxide)
Transport hazard class(es):	
DOT Hazard Class:	8
DOT Subsidiary Hazard Class:	Not available.
Label:	Corrosive
Packing group, if available:	II
Environmental Hazards:	Yes.
Special precautions for user:	Not available.
Transport in bulk according to Annex II of MARPOL 73/78³ and the IBC Code ³:	Not applicable.

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Unless otherwise noted, no components are SARA TITLE 3 SECTION 313 40 CFR listed materials.

The ingredients of this product are listed on the TSCA inventory.

This product is not made with VOC'S that could cause damage to the ozone layer.

Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substance List and/or Pennsylvania Environmental Hazardous Substance List:

The following product components are cited in the Pennsylvania Hazardous Substance List and/or Pennsylvania Environmental Hazardous Substance List.

Component	CAS No.	Amount
Dipropylene glycol monomethyl ether	34590-94-8	0-5

CERCLA Reportable Quantity (RQ): Sodium Hydroxide= 1,000 lbs.

State Regulatory Information: Components of this product are covered under specific state regulations, as denoted below:

Alaska- Designated toxic and hazardous substances: Sodium Hydroxide

California- Permissible Exposure Limits for Chemical Contaminants: Sodium Hydroxide

Florida- Substance List: Sodium Hydroxide

Illinois- Toxic Substance List: Sodium Hydroxide

Kansas- Toxic Substance List: Sodium Hydroxide

Minnesota- List of Hazardous Substances: Sodium Hydroxide

Missouri- Employer Information/Toxic Substance List: Sodium Hydroxide

New Jersey- Right to Know Hazardous Substance List: Sodium Hydroxide

North Dakota- List of Hazardous Chemicals, Reportable Quantities: Sodium Hydroxide

Pennsylvania- Hazardous Substance List: Sodium Hydroxide

Rhode Island- Hazardous Substance List: Sodium Hydroxide

Texas- Hazardous Substance List: Sodium Hydroxide

West Virginia- Substance List: Sodium Hydroxide

Wisconsin- Toxic and Hazardous Substances: Sodium Hydroxide

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

SECTION 16: Other information including date of preparation or last revision

Chemical State: Liquid

Chemical Type: Mixture

3	Health
0	Flammability
1	Physical Hazard
C	Personal Protection

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