

# Safety Data Sheet

## SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name :** NEUTRALIZER 4055 (NT-4055)

**Manufacturer's Name:**  
Nihon Parkerizing (M) Sdn. Bhd.

**Emergency Telephone No.:**  
03-33410227,33410085,33410091

**Address:**  
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Bukit Raja, 41050 Klang, Selangor.

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**Description:**

**Date Revised:** 13 December 2024

## SECTION 2 : HAZARD IDENTIFICATION

### GHS Classification

#### Physical hazards:

Explosives : Not applicable

Flammable gases : Not applicable

Flammable aerosols : Not applicable

Oxidizing gases : Not applicable

Gases under pressure : Not applicable

Flammable liquids : Classification not possible

Flammable solids : Not applicable

Self-reactive substances and mixtures : Not applicable

Pyrophoric liquids : Not classified

Pyrophoric solids : Not applicable

Self-heating substances and mixtures : Not classified

Substances and mixtures, which in contact with water emit flammable gasses  
: Not applicable

Oxidizing liquids : Not classified

Oxidizing solids : Not applicable

Organic peroxides : Not applicable

Corrosive to metals : Classification not possible

#### Health hazard :

Acute toxicity – Oral : Not classified

Acute toxicity – Dermal : Not classified

Acute toxicity – Inhalation (Gases) : Not applicable

Acute toxicity – Inhalation (Vapours) : Not classified

Acute toxicity – Inhalation (Dusts, Mists) : Not classified

Skin Corrosion / Irritation : Category 1

Serious Eye Damage / Eye Irritation : Category 1

Respiratory sensitization : Classification not possible

Skin sensitization : Classification not possible

Germ Cell Mutagenicity : Not classified

Carcinogenicity : Classification not possible

Reproductive toxicity : Classification not possible

Specific target organ toxicity following (single exposure) : Category 1  
(Testesrespiratory organs)

Specific target organ toxicity following (repeated exposure) : Classification not possible

Aspiration toxicity : Classification not possible

### **Environmental hazards:**

Hazardous to the aquatic environment acute hazard : Category 3

Hazardous to the aquatic environment chronic hazard : Classification not possible

### **GHS label elements:**

#### **Pictogram**



**Signal word** : Danger

#### **Hazard Statements:**

H314 Causes severe skin burns and eye damage.

H370 Causes damage to organs Testesrespiratory organs

H412 Harmful to aquatic life with long lasting effects

#### **Precautionary Statements**

##### **Prevention:**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands, face thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid released to environment.

P280 Wear protective gloves/protective gloves/ eye protection/face protection.

**Response:**

Immediately call a POISON CENTER or doctor/physician.

If exposed: Call a POISON CENTER or doctor/physician.

If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If SWALLOWED: Rinse mouth. Do not induce vomiting.

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.

**Storage:**

Store locked up.

**Disposal:**

Dispose of contents/container through a licensed disposal agent in accordance with local/regional/national/international regulations (to be specified).

Hazard information which do not fall under GHS classification:

**Hazard Statements:**

Harmful by ingestion.

**Precautionary Statements****Prevention:**

Wear masks, chemical-resistant gloves or protective clothing to avoid accidental ingestion, contact, inhalation in accordance with regulation.

**Response:**

In the case of accidental ingestion, contact or inhalation, take necessary steps such as to rinse mouth and wash the affected area.

Take additional steps such as to get medical advice/attention, if necessary.

**Storage:**

Store locked up.

**Disposal:**

Dispose of contents/container through a licensed disposal agent in accordance with local/regional/national/international regulations (to be specified).

**SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS**

Division of chemical substance/mixture : Mixture

 Chemical name or generic name : **NEUTRALIZER 4055 (NT-4055)**

Ingredient(s)	CAS Number	Content (%)
Sodium hydroxide	1310-73-2	25
Water	7732-18-5	-

**SECTION 4 : FIRST AID MEASURES**
**Description of first aid measures:**

<b>INHALATION</b>	<ul style="list-style-type: none"> <li>- Remove victim to fresh air and keep at rest position comfortable for breathing.</li> <li>- If breathing is weak, irregular or has stopped, administer artificial respiration.</li> <li>- If the victim is vomiting, turn the head to the side so that the airways are not blocked.</li> <li>- May irritate a throat. Do not induce vomiting.</li> <li>- Call a POISON CENTER or doctor/physician.</li> </ul>
<b>SKIN</b>	<ul style="list-style-type: none"> <li>- Wash the victim's skin with running water or shower.</li> <li>- This product is ALKALINE. Do not use soap.</li> <li>- Wash the affected area under plenty of running water, lukewarm running water or dilute acetic acid (0.5 ~ 2%) until the feeling of soapiness disappear.</li> <li>- Immediately call a POISON CENTER or doctor/physician.</li> <li>- Remove/Take off immediately all contaminated clothing.</li> <li>- Wash contaminated clothing before reuse.</li> </ul>
<b>EYES</b>	<ul style="list-style-type: none"> <li>- Rinse cautiously with water. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>- Call a POISON CENTER or doctor/physician. Get medical advice/attention immediately.</li> </ul>
<b>SWALLOWED</b>	<ul style="list-style-type: none"> <li>- Corrosives. Do NOT induce vomiting.</li> <li>- Rinse mouth.</li> <li>- Call a POISON CENTER or doctor/physician. Get medical advice/attention immediately.</li> <li>- If the victim is vomiting, turn the head to the side so that the airways are not blocked.</li> </ul>
<b>PROTECTION FOR FIRST-AIDER</b>	<ul style="list-style-type: none"> <li>- Personal protective equipment described in Section 8: Exposure control/Personal protection.</li> <li>- Ventilated area, if gases, vapours, mists or dusts occur.</li> </ul>

**SECTION 5 : FIRE FIGHTING MEASURES****Suitable Extinguishing Media:**

- This product is not combustible.

**Specific Extinguishing Method:**

- Remove combustible materials from fire area.
- Move container from fire areas if possible to do so without hazard.
- Cool down container and the surrounding area by water, if container cannot be moved.

**Protection For Fire-Fighters:**

- Fight a fire from windward to avoid inhalation of vapour and combustion gases.
- In firefighting, wear proper protective equipment (fire fighter protective clothing, respiratory protection) to avoid inhale and contact with the chemical.

**SECTION 6 : ACCIDENTAL RELEASE MEASURES****Personal Precautions, Protective Equipment and Emergency Procedures:**

- Wear protective equipment regulated in Section 8: Exposure Control and Personal Protection to avoid contact to eyes or skin and inhalant gases, dust and fumes.
- Set up off-limits area to prevent secondary disaster.
- Use local exhaust to avoid inhalant gases, mist, vapour or dust for indoor work.

**Environmental Precautions:**

- Acute toxic to aquatic life with long lasting effect. Do not drain this product or rinsing water to natural water system.
- In case of using waste water treatment equipment, call the administrator to avoid discharge the waste water involving the product.

**Methods and Materials for Containment and Cleaning Up:**

- Retrieve spilled material, using shovel or waste cotton.
- Dike to contain spill in case of large spill.
- Retrieve spilled material, collect and store in suitable.
- Spilled materials and contaminated substances should be disposed as regulated.

**Secondary Disaster Prevention Measures:**

- Set-up off-limits area to prevent secondary disaster.
- Call the section relating safety, hygiene, environment, disaster prevention etc.
- Take proper measures.

**Recovery, Neutralization and Disposal:**

- Alkaline substance. Use diluted Hydrochloric Acid, diluted Sulfuric Acid, and Acetic Acid to neutralize.
- Work carefully in neutralization or dilution, heat may generate.
- In case of small spill, retrieve spilled material using absorbent such as sawdust, soil, sand, waste cotton.
- Dike to contain spill in case of large spill. After collect in suitable area, dispose as regulated.

**SECTION 7 : HANDLING AND STORAGE****Technical Measures:**

- Use corrosion resistant material for equipments.
- Take necessary steps to avoid contact and/or overexposure, for instant protective facilities, protective equipment regulated in Section 8: Exposure Control and Personal Protection.
- Handle in a well-ventilated place.

**Local Ventilation/Total Ventilation:**

- Take necessary ventilation regulated in Section 8: Exposure Control and Personal Protection.

**Precautionary Statements:**

- Wear suitable protective equipment, gloves, and eye/face protection to avoid contact to skin, clothing or mucous membrane.
- Wash hand and faces after handling. Do not bring polluted protective equipment into the resting room.
- Wear suitable protective equipment and handle in a well-ventilated place.

**Safe Handling Instructions:**

- Avoid release to environment.
- Alkaline substance. Avoid contact to acidic substances.
- Avoid rough handling such as toppling, dropping, exposing shock, dragging.
- Call attention to workers about hazard information by posting SDS.

**Avoid Contact Storage:**

- Refer to incompatible materials shown in Section 10 : Stability and Reactivity

**Suitable Condition:**

- Store locked up.
- In every use, keep container tightly closed.

**Packing Material:**

- Use product containers or a container having enough strength.

**Incompatible materials:**

- Acidic substances.

**SECTION 8 : EXPOSURE CONTROLS AND PERSONAL PROTECTION****Protective equipment:**

- Make available hand wash and face wash in work place. After handling, wash hands and face.
- Use local exhaust, push-pull ventilation system or general ventilation to keep below specified level.

**Occupational Exposure Limit (ACGIH):**

<b>Ingredient</b>	<b>TWA</b>	<b>STEL</b>	<b>Ceiling</b>
Sodium hydroxide	-	-	2 mg/m <sup>3</sup>

**Had Pendedahan Pekerjaan (OSHA):**

<b>Bahan</b>	<b>PEL</b>	<b>Ceiling</b>
Sodium hydroxide	2 mg/m <sup>3</sup>	-

**Personal Protective Equipment****Respiratory Protection:**

- Wear proper respiratory protection.

**Hand Protection:**

- Wear chemical resistant gloves.

**Eye Protection:**

- Use proper eye protection.
- If necessary, use chemical goggles or face shield.

**Skin and Body Protection:**

- Wear proper protective clothing such as to avoid direct skin contact.
- Wear chemical resistant protective clothing.

**Appropriate Hygiene Measures:**

- Do not breathe dust/fume/gas/mist/vapours/spray
- Wash hands, face thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Physical State : Liquid

Color : Colorless

**Odour** : No Information**pH** : 14**Melting Point/Freezing Point** : No Information**Initial Boiling Point and****Boiling Range** : No Information**Flash Point** : No Information**Auto-Ignition Temperature** : No Information**Upper/Lower Flammability** : No Information**or Explosive Limits****Vapour Pressure** : No Information**Vapour Density** : No Information**Evaporation Speed** : No Information**Specific Gravity(relative density)** : 1.3 (27°C)**Solubility in Water** : No Information**Dissolubility in Water** : Water soluble liquid**Solubility in Organic Solvent** : No Information**Dissolubility in Organic Solvent** : No Information**n-Octanol/Water** : No Information**Partition Coefficient****Decomposition Temperature** : No information**SECTION 10 : STABILITY & REACTIVITY****Stability/Possibility of Hazardous Reaction:**

Stable under normal conditions.

**Condition to Avoid:**

No Information

**Incompatibility Materials:**

No Information

**Hazardous decomposition product:**

No Information

**Others:**

No Information

**SECTION 11 : TOXICOLOGICAL INFORMATION**
**Acute toxicity studies:**

Acute toxicity studies are shown as below:

Sodium hydroxide	LD50(oral)	Rabbit	325 mg/kg
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**Health Hazard Category List 1 :**

Ingredients	Skin Corrosion/Irritation	Serious Eye Damage/ Eye Irritation	Respiratory Sensitization	Skin Sensitization	Germ Cell Mutagenicity	Reproductive Toxicity
Sodium hydroxide	1	1	-	-	-	X
Water	X	X	X	X	X	X

**Health Hazard Category List 2:**

Ingredients	Specific Target Organ Toxicity-Single Exposure			Specific Target Organ Toxicity-Repeated Exposure		Aspiration Toxicity
	Category 1	Category 2	Category 3	Category 1	Category 2	
Sodium hydroxide	Testes-respiratory organs			X	X	X
Water	X	X	X	X	X	X

X : Classification not possible

- : Not classified

**Carcinogenicity**

Ingredient	GHS Classification	IARC	NTP	EPA 1986	EPA 1996	EPA 2005	ACGIH	EU Directive
Sodium hydroxide	X							
Water	X							



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- Regulatory information with regard to the transportation of this substances is describe as below:

- UN number : 1824                      Class : 8                      Packing Group : II
- ❖ Land Transportation                      : Follow all regulations in the country or region.
  - ❖ Marine Transportation                      : Follow the procedure specified by IMDG CODE. Do not discharge into the sea area.
  - ❖ Air Transport                                      : Follow the procedure specified by IATA REGULATION.

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### **SECTION 15 : REGULATORY INFORMATION**

- Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

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### **SECTION 16 : ADDITIONAL INFORMATION**

#### **Other Precautions:**

For industrial use only.

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#### **USERS RESPONSIBILITY:**

This product safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operations. Please consult your local sales representative for any further information.

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#### **SECRECY OBLIGATION:**

This document contains trade secrets, know-how, and other intellectual properties of the manufacturer. The purposes of this document are primarily to disclose information for occupational safety and health, to respond to requirement from relevant laws, ordinances, regulations and requirements from public authorities. Illegal use of any part of this document may from breach manufacture's intellectual properties and subject to compensation for damages.

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