

## SAFETY DATA SHEET

**Product Name** **RANGER**

Revision Date: 27/03/2024

Version: 001

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** : RANGER  
**Recommended Use** : Concentrated heavy duty alkaline cleaner for oven and grill  
**Company Details** : Advance International Cleaning System (NZ) Ltd  
**Address** : 663 Great South Road, Penrose, Auckland 1642  
**Telephone Number** : +64 9 525 3792  
**Emergency Telephone: Number** : National Poison Information Centre **0800 764 766**  
**Date of Preparation** : 26/03/2024

### 2. HAZARD IDENTIFICATION

#### GHS Classification and Categories

Acute toxicity: oral	<b>Category 4</b>
Skin corrosion/irritation	<b>Category 1B</b>
Serious eye damage/eye irritation	<b>Category 1</b>
Corrosive to metals	<b>Category 1</b>



**DANGER**

<b>Code</b>	<b>Hazard Statement</b>
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H290	May be corrosive to metals.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation
H318	Causes serious eye damage.
H319	Causes serious eye irritation

### Prevention Statement

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/vapours/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P310	Immediately call a POISON CENTER or doctor/physician.

### Response Statement

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children
P330	Rinse mouth.
P301 + P330 + P331+ P312	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338 + P313	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P337 + P313	IF eye irritation persists: Get medical advice/attention.

P310	Immediately call a POISON CENTER or doctor/physician.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before re-use.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.

### STORAGE

<b>P405</b>	Store locked up.
<b>P501 :</b>	Dispose through licensed disposal contractor.
<b>Other Hazards :</b>	None Known

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Ingredient</b>	<b>CAS#</b>	<b>Concentration %</b>
Potassium Hydroxide	1310-58-3	<30
Sodium metasilicate	10213-79-3	<10
Glucoside	68515-73-1	<10
Other Ingredients – Non Hazardous		Level

### 4. FIRST AID MEASURES

<b>Ingestion</b>	Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor, or physician. Get medical attention or advice if you feel unwell.
<b>Eye contact</b>	Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes.
<b>Skin contact</b>	Take off immediately all contaminated clothing and wash it before re-use. Immediately call a POISON CENTRE, doctor, or physician.
<b>Inhalation</b>	Remove person to fresh air and keep comfortable for breathing. Get medical attention or advice if you feel unwell

**Poison Information Centre: Call 0800 764 766 (0800 POISON)**

## 5. FIRE FIGHTING MEASURE

Suitable extinguishing media :	Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam. Keep containers cool and protect exposed material. If a leak or spill has not ignited, water spray may be used to flush spills away from exposures
Unsuitable extinguishing media :	None known.
Specific hazards during firefighting :	Non Combustible Liquid. While burning, it will emit toxic fumes including carbon monoxide and carbon dioxide.
Hazardous combustion products :	Not combustible. Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides
Special protective equipment for firefighters :	Use personal protective equipment. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion as well as structural fire fighter's uniform.
Specific extinguishing methods :	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes
HAZCHEM CODE	2R 2- Fine Water Spray R- Liquid tight chemical protective clothing and breathing apparatus. Dilute

## 6. ACCIDENTAL RELEASE MEASURES

### Emergency Precautions:

Personal precautions, protective equipment and emergency procedures Wear suitable protective clothing, gloves, and eye/face protection. Evacuate all

unnecessary personnel. Increase ventilation. Avoid walking through spilled product as it may be slippery.

**Environmental precautions:** Do not allow to enter drainage system, surface, or ground water. Dilute with plenty of water. Advise the Environmental Protection Authority or your local Waste Management. Use clean, non-sparking tools and equipment.

**Methods and material for containment and cleaning up** Use neutralising agent. Absorb onto dry sand or similar inert material.

**Environmental precautions:**

Do not allow to enter drainage system, surface, or ground water. Dilute with plenty of water.

Advise the Environmental Protection Authority or your local Waste Management. Use clean, non-sparking tools and equipment.

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

Soak up spilled product using absorbent, non-combustible material such as sand or soil. Avoid using sawdust or cellulose. When saturated, collect material into suitable, labelled, dry, sealable containers and hold for safe disposal. Once pick-up is complete, flush spill site with plenty of water to eliminate any residue. Hold contaminated water for treatment/disposal.

## 7. HANDLING AND STORAGE

**Advice on safe handling:**

Wash hands thoroughly after handling. Use only in a well-ventilated area. Avoid contact with eyes, skin, and clothing. Empty containers retain product and residue (liquid or vapour) and can be dangerous. Keep container tightly closed. Always wash hands before smoking, eating, or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Do not dispose of material to sewers or waterways.

**Advice on general occupational hygiene:**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink, and animal feeding stuffs. Wash hands before breaks and at the end of workday. Wash face, hands, and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with skin and eyes. Do not eat, drink, or smoke when using this product. Use only with adequate ventilation.

Conditions for safe storage: Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers.

Storage temperature: 0 °C to 50 °C

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Standards:**

The Occupational Safety and Health Service, NZ Department of Labour have set no Tolerable Exposure Limit (TEL) Workplace Exposure Standards (WES) for this substance.

If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted products.

**Appropriate engineering controls:** Where possible: use in automated/closed system and cover open containers. Transport over pipes.

Filling with automatic systems. Use tools for manual handling of product.

**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted or un neutralised.

## PERSONAL PROTECTIVE EQUIPMENT:

### Respiratory Protection:

Where concentration in air may exceed the limits described in the National Exposure Standards, it is recommended to use a half face filter mask to protect from overexposure by inhalation. A type “A” filter material is considered suitable for this product.

### Eye Protection:

Safety glasses or goggles (EN 166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.

### Skin/Hand Protection

Always wear long sleeves and long trousers or coveralls, enclosed footwear or safety boots and chemical resistant gloves when manufacturing this product. Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the glove’s supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature. Suggested gloves for prolonged contact: Material: butyl rubber Penetration time:  $\geq 480$ min Material thickness:  $\geq 0.7$ mm Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time:  $\geq 30$ min Material thickness:  $\geq 0.4$ mm In consultation with the supplier of protective gloves a different type providing similar protection maybe chosen.

**Body protection:** Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Clear / Rusty liquid
Physical State	: Liquid
Odour	: Significant
pH	: 14

Solubility	: Soluble in water
Vapour Density	: Not Known
Boiling point	: >100°C
Freezing Point	: Not Known
Ignition Point	: Not Known
Flash Point	: Not Determined
Specific Gravity	: 1.20-1.30
Vapour pressure	: Not Known
% Volatilities	: Not Applicable

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable at room temperature and Pressure

**Conditions to avoid:** Avoid excessive heat, direct sunlight, moisture, high temperatures. No hazardous reactions are known under normal storage and use conditions.

**Incompatible Materials:** Incompatible with Oxidising agents, acidic agents including acidic clays and sources of ignition. Reacts with acids.

**Hazardous decomposition:** When involved in a fire, this product will generate carbon oxides, Nitrogen Oxides, Sulphur Oxides.

**Hazardous reactions:** Oxidizing agents, mineral acids, halogenated organic compounds.

## 11. TOXICOLOGICAL INFORMATION

### Mixture data:

Relevant calculated ATE(s):

ATE- Oral (mg/kg):1224

No adverse health effects expected if the product is handled in accordance with the safety data sheet. Symptoms or effects that may arise if the product is mishandled and the overexposure occurs are:

### Acute Effects

Eyes : Causes serious eye irritation.

Skin : This product is irritating to skin.

**Ingestion :** Small amounts of liquid aspirated into lungs during ingestion, or from vomiting. Ingestion of large amounts of this product will result in headaches, nausea, dizziness, and tracheal burning.

**Inhalation :** Irritating to respiratory tract. Exposure to high concentrations over an extended period may result in muscle weakness, tingling in hands and feet, blurred vision, headaches, nausea, loss of appetite, hallucinations, and possible loss of consciousness.

**Exposure :** Health injuries are not known or expected under normal use

## 12. ECOLOGICAL INFORMATION

**Persistence/ degradability:** The substance is aerobically readily biodegradable and anaerobically biodegradable.

**Mobility:** No data available for this product.

**Toxicity -Environmental Effects:** Harmful to aquatic life. Avoid contaminating water ways.

**Other adverse effects:** No data available

## 13. DISPOSAL CONSIDERATIONS

### Disposal Methods:

Do not contaminate storm water drains, natural waterways, or soil with chemical or used container. Where possible recycling is preferred to disposal or incineration.

If recycling is not practicable, dispose of contents/container in accordance with local regulations. Dispose of in accordance with local and national regulations.

### Disposal considerations:

Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse empty containers.

Dispose of in accordance with local, state, and federal regulations.

## 14. TRANSPORT INFORMATION





Land transport, Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

**Road and Rail Transport:** Classified as Dangerous Goods by the criteria of New Zealand Dangerous Goods Code for transport by road and rail.

**Marine Transport:** Classified as Dangerous Goods by the criteria of international Maritime Dangerous Goods Code for transport by sea.

**Air Transport:** Classified as Dangerous Goods by the criteria of international. Air Association Dangerous Goods Regulations for transport by air.

**Special precautions for user:** None

**Shipping Name** : Potassium Hydroxide Solution

**Hazard Class** : 8

**UN Number** : UN1814

**Packaging Group** : II

**Hazchem code** : 2R

**IMO/IMDG**

EmS: F-A, S-B

Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

## 15. REGULATORY INFORMATION

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

**HSNO Approval No** HSR002526

**Group Standard** Cleaning Products (Corrosive hazard) Group Standard 2020

**Inventory Listing(s)** New Zealand: NZIoC (New Zealand Inventory of Chemicals)  
All components are listed on the NZIoC inventory or are exempt.

## 16. OTHER INFORMATION

**HSNO Classification:** 6.1D, 8.1A, 8.2B, 8.3A,

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract.*

**New Zealand National Poison Information Centre: 0800 764 766**

**New Zealand Emergency Services: 111**

**Advance International Cleaning Systems (NZ) Limited: +64 9 525 3792**

Every endeavour has been made to ensure that the information contained in this publication is reliable and offered in good faith. It is meant to describe the safety requirements of our products and should not be construed as guaranteeing specific properties. Customers are encouraged to conduct their own tests as end user suitability of the product for uses is beyond our control. The information is not intended as an inducement to bargain, and no warranty expressed or implied is made as to its accuracy, reliability or completeness.

Advance International Cleaning Systems (NZ) Limited accepts no liability for loss, injury or damage arising from reliance upon the information contained in this data sheet except in conjunction with the proper use of the product to which it refers. Due care should be taken that the use and disposal of this product complies with appropriate Local Councils regulations.

**End of Safety Data Sheet**