

### Section 1 - IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

#### 1.1 Product identifier

- **Product Name :** Prince R

#### 1.2 Relevant identified uses of the substances or mixture and used advised against

- **Recommended use :** Alkaline cleaner & disinfector
- **Recommended restrictions :** For industrial use only

#### 1.3 Details of supplier of the safety data sheet :

- **Manufacturer Details:** ZOHAR DALIA C.A.A. Ltd.,  
Kibbutz Dalia 1923900, Israel  
Tel. 972-4-9897234  
Fax 972-4-9897200

#### 1.4 Emergency telephone number :

- **Emergency Telephone & Contact:** Tel: +972-4-9897515

### Section 2 - HAZARDS IDENTIFICATION

#### 2.1 Classification of substance or mixture according to Regulation (EC) No 1272/2008 (CLP)

Human health hazard categories and codes:	Skin corrosion	category 1A
	Eye damage	Category 1
Environmental hazard categories and codes:	Aquatic Acute	category 1

#### 2.2 Labeling according to Regulation (EC) No 1272/2008 (CLP)

- **Hazard Pictogram :** **SIGNAL WORD: Danger**



GHS05  
Corrosion



GHS09  
Environment

- **Hazard Statements :** H314: Causes severe skin burns and eye damage.  
H400: Very toxic to aquatic life

- **Precautionary Statements:** P260: Do not breathe dust/fume/gas/mist/vapours/spray  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P310: Immediately call a POISON CENTER/doctor if you feel unwell.  
P303+P361+P353: IF ON SKIN (or hair): 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.  
P391: Collect spillage.

P501: Dispose of contents/container to an approval waste disposal plant

### 2.3. Other hazards

Not known

### Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Constituent	CAS No.	EC No.	Concentration range	Classification according to Regulation (EC) No 1272/2008 (CLP)	Remarks
Sodium Hydroxide	1310-73-2	215-185-5	>=5.0 % < 15.0 %	Skin Corr. 1A; H314	H314: C ≥ 5%
Sodium Hypochlorite	7681-52-9	231-668-3	>=1.0% < 5.0 %	Skin Corr. 1B; H314 Aquatic Acute 1; H400	None

### Section 4 - FIRST AID MEASURES

#### 4.1 Description of First Aid measures:

- **General measures** : Take off all contaminated clothing immediately. In the case of accident or if you feel unwell, seek medical advice immediately.
- **Eye contact** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist..
- **Skin Contact** : Wash off immediately with plenty of water for at least 15 minutes.  
Take off all contaminated clothing immediately.  
Consult a physician.
- **Inhalation** : Remove from exposure, lie down.  
If breathing is irregular or stopped, administer artificial respiration.  
Monitor breathing, give oxygen if necessary.  
Consult a physician.
- **Ingestion** : If swallowed, rinse mouth with water (only if the person is conscious).

#### 4.2. Most important symptoms and effects, both acute and delayed

- In all cases of doubt, or when symptoms persist, seek medical advice.

#### 4.3. Indication of any immediate medical attention and special treatment needed

- Advice to physician: symptomatic treatment is advised.
- Eye rinsing device shall be made available at any point of handling of the product.

### Section 5 - FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media:

**Suitable extinguishing media:** Water spray, Dry powder, Foam, Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media:** None known

**5.2. Special hazards arising from the substance or mixture:** Not combustible. Gives off irritating or toxic fumes in a fire.

#### 5.3. Advice for fire-fighters

- Use fire fighting water moderately and contain it.
- Use water spray to cool tanks/containers exposed to heat / remove them into safety.
- In the event of fire, wear self-contained breathing apparatus.
- Use personal protective equipment.
- Wear chemical resistant oversuit

### Section 6 - ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

- **Personal Protective Equipment :** Wear self-contained breathing apparatus in case of fire.  
Wear corrosion-proof suit
- **Eye Protection :** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- **Skin Protection :** Avoid contact with skin by use of protective equipment. (as mentioned in section 8.2)
- **Respiratory Protection :** Wear personal protective equipment. (as mentioned in section 8.2)
- **Work Practices :** Wear eye/face protection.

#### 6.2. Environmental precautions:

- Should not be released into the environment.
- Do not flush into surface water or sanitary sewer system.
- If the product contaminates rivers and lakes or drains inform respective authorities.

#### 6.3. Methods and material for containment and cleaning:

- Recovery: Pump into a clean labelled emergency container after cleaning, flush away traces with water. recover water for later processing
- Large spillage – pump onto plastic containers and rework/dispose as per local legislation.
- Small spillage – use non-combustible absorbent and shovel into container for disposal.
- Neutralization: Neutralize contaminated water with a suitable solvent
- Equipment must be corrosion resistant.

### Section 7 - HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

- Observe strict hygiene - avoid eye and skin contact.
- Avoid splashing of material.
- Safety showers should be readily available in handling and storage areas.

- Eye wash fountains should be located in the work areas and should be immediately accessible for emergency use.
- Remove contaminated clothing immediately.
- Use only equipment and materials which are compatible with the product.
- To avoid thermal decomposition, do not overheat.
- Do not mix with ammonia or acids as hazardous fumes may result.
- Do not reuse empty bottle.

### 7.2 Conditions for safe storage:

- Store in original container.
- Keep in a cool, dry, well-ventilated place.
- Keep in properly labelled containers.
- Keep container closed.
- Keep away from incompatible products.

### 7.3 Specific end use(s):

- As prescribed in section 1.2

## Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters:

Not Applicable.

### 8.2 Exposure Control:

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• <b>Engineering measures:</b></li> <li>• <b>Respiratory Protection:</b></li> </ul>   | <p>Ensure adequate ventilation, especially in confined areas.<br/>In case of insufficient ventilation, wear suitable respiratory equipment.<br/>In the case of hazardous fumes, wear self-contained breathing apparatus.</p>   |
| <ul style="list-style-type: none"> <li>• <b>Hand Protection:</b></li> <li>• <b>Eye protection:</b></li> <li>• <b>Skin protection:</b></li> <li>• <b>Protective measures :</b></li> </ul> | <p>Splash contact, intermittent and prolonged PVC gloves<br/>Safety glasses with side-shields<br/>waterproof suit, Complete chemical protection suit, Boots<br/>Wear suitable gloves and eye/face protection. Avoid contact with the skin and the eyes. General industrial hygiene practice.</p> |

## Section 9 – PHYSICAL & CHEMICAL PROPERTIES:

### 9.1 Information on basic physical and chemical properties:

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• <b>Appearance:</b></li> <li>• <b>Odour:</b></li> <li>• <b>Odour threshold:</b></li> <li>• <b>pH (2% in water):</b></li> <li>• <b>Melting point/Freezing point:</b></li> <li>• <b>Initial boiling point and boiling range:</b></li> <li>• <b>Flash point:</b></li> <li>• <b>Evaporation rate:</b></li> </ul> | <p>Yellowish Liquid<br/>Characteristic<br/>N.A.<br/>12.0 – 13.0<br/>N.A.<br/>&gt; 100 °C<br/>N.A.<br/>N.A)</p> |
|--|--|

- **Flammability(solid/gas):** N.A.
- **Upper/lower flammability or explosive limits:** N.A.
- **Vapour pressure:** N.A.
- **Vapour density:** N.A.
- **Relative density:** 1.2 g/ml
- **Solubility(ies) :** Miscible (in all proportions)
- **Partition coefficient: n-octanol/water:** N.A.
- **Auto-Ignition temperature:** N.A.
- **Decomposition temperature:** N.A.
- **Viscosity:** -
- **Explosive properties:** No
- **Oxidizing properties:** No

9.2 **Other information:** Not available

### Section 10 - STABILITY AND REACTIVITY

- **Reactivity :** Potential for exothermic hazard  
May be corrosive to metals.
- **Chemical stability :** Stable under recommended storage and handling conditions.
- **Possibility of hazardous reactions :** The product decomposes on heating, on contact with acids under influence of light producing toxic and corrosive gases including chlorine. The product in water is a weak base.
- **Conditions to avoid :** Heat, direct sunlight
- **Hazardous decomposition products :** No hazardous decomposition products if stored and handled as prescribed/indicated.
- **Incompatible materials :** Methanol, strong acids, ammonia, organics

### Section 11 - TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects:

- For CAS 7681-52-9 Sodium hypochlorite:  
Acute toxicity oral (rat)-LD50 1100 mg/kg  
Acute toxicity dermal (rabbit)- LD50 20000 mg/kg  
Acute toxicity inhalation (rat)- LC50 10500 mg/m<sup>3</sup>

#### 11.2 Irritation Corrosion:

- **Eye:** The product causes eye damage.
- **Skin:** The product found corrosive to skin.

#### 11.3 Sensitization

- The product is not sensitizing to skin.

#### 11.4 CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

- **Carcinogenicity** : Not classified as carcinogen.
- **Mutagenic effects** : Not classified as a mutagen.
- **Reprotoxic effects** : Not found to be reprotoxic.

### 11.5 Other toxic effects on humans:

- **Inhalation** : No data available
- **Dermal** : Causes severe burns
- **Eyes** : May cause eye irritation.
- **Ingestion** : No data available
- **Chronic toxicity** : No data available

### 11.6 NIOSH Immediately Dangerous To Life or Health Concentration (IDLH):

- No information available

### 11.7 Specific target organ toxicity:

- **Single exposure** : No experimental or epidemiological sufficient evidence for specific target organ toxicity
- **Repeated exposure** : No experimental or epidemiological sufficient evidence for specific target organ toxicity

## Section 12 - ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity:

- Aquatic toxicity (acute): Product contains sodium hypochlorite which is very toxic to aquatic life.

### 12.2 Persistence and degradability:

- Not applicable. The product is inorganic and cannot be tested for biodegradability.

### 12.3 Bioaccumulative potential:

- The product contains Sodium hypochlorite which reacts instantly with organic matter and every oxidizable material. Therefore no bioaccumulation testing according to Annex IX, 9.3.2. is technically feasible.

### 12.4 Mobility in soil:

- The product is inorganic with an infinite water solubility and very low partitioning coefficients should be considered to be mobile in soil and sediment.

### 12.5 Results of PBT and vPvB assessment:

- Not PBT and PVB

### 12.6 Other adverse effects:

- None

## Section 13 - DISPOSAL CONSIDERATIONS:

- **Disposal of product** : Dilute with water. Neutralize contaminated water with a suitable solvent solution.

Recover waste water for processing later.

- **Disposal of packaging :**

Clean container with water. Recover waste water for processing later.

### Section 14 - TRANSPORT INFORMATION:

Classified as dangerous in the meaning of transport regulations due to its composition.

#### Land transport (ADR/RID)

- **UN Number** : 1791
- **UN proper shipping name** : Hypochlorite solution
- **Transport hazard class** : 8
- **Packing group** : III

#### Marine transport (IMDG)

- **UN Number** : 1791
- **UN proper shipping name** : Hypochlorite solution
- **Transport hazard class** : 8
- **Packing group** : III
- **EmS number** : F-A, S-B
- **Marine pollutant** : Yes

#### Air transport ICAO/IATA

- **UN Number** : 1791
- **UN proper shipping name** : Hypochlorite solution
- **Transport hazard class** : 8
- **Packing group** : III

### Section 15 - REGULATORY INFORMATION

#### 15.1 Other regulatory information:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

Control of Substances Hazardous to Health Regulations (COSHH) 2002 SI 2002/2677 and COSHH Essentials: Easy steps to control chemicals - Control of Substances Hazardous to Health Regulations HSG193.

#### Inventory Status:

Listed in: US(TSCA), Europe (EINECS), New Zealand (NZIoC), Philippines (PICCS), Canada(DSL), China (IECSC),Australia (AICS), Japan (ENCS).

- **HMIS (Hazardous Materials Identification system) classification:**

<b>Health</b>	<b>2</b>
<b>Fire</b>	<b>1</b>
<b>Physical Hazard</b>	<b>1</b>
<b>Personal Protection</b>	<b>D</b>

2 = Temporary or minor injury may occur.

1 = Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 °F. (Class IIIB).

1 = Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures.



- NFPA :(National Fire Protection Association)

<b>Health</b>	<b>2</b>
<b>Fire</b>	<b>1</b>
<b>Reactivity</b>	<b>1</b>

2 = Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury

1 = Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur

1= Normally stable, but can become unstable at elevated temperatures and pressures

### 15.2 Chemical Safety Assessment:

- A chemical safety assessment has been carried out for the substance or the mixture by the supplier (LR)- No

## Section 16 – OTHER INFORMATION

### 16.1 Technical Advice:

- Use data given in this Safety Data Sheet and make an inventory list of all chemicals used in the factory
- Create a Register for Workplace Chemicals;
- Set priorities concerning the safety in the organization
- Create emergency plans for the assessed hazards;
- Organize occupational health care and regular surveys as necessary;
- Organize contacts with authorities/laboratories to create a monitoring system for chemical hazards, and to reliably measure and/or estimate occupational exposures to chemicals when needed;
- Start collecting case studies of accidents and sickness records in the enterprise to create a basis for priority measures in the control of hazards;
- Involve workers in safety organizations, such as the system of Safety Representatives and Committees.
- Do regular inspection using checklists made for the particular chemicals and chemical processes in use;
- Mark and label all chemicals;
- Keep at hand an inventory list of all chemicals handled in the place of work together with a collection of Chemical Safety Data Sheets for these chemicals;
- Train workers to read and understand the Chemical Safety Information, including the health hazards and routes of exposure; train them to handle dangerous chemicals and processes with respect;
- Plan, develop and choose the safe working procedures;
- Reduce the number of people coming into contact with dangerous chemicals;



- Reduce the length of time and/or frequency of exposure of workers to dangerous chemicals;
- Train workers to know and understand the emergency procedures;
- Equip and train workers to use personal protective equipment properly after everything possible has been done to eliminate hazards by means of other methods;

### 16.2 List of relevant R phrases:

R34- Causes burns

R50 - Very toxic to aquatic organisms

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