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**Safety Data Sheet****1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**

<b>Product name</b>	Harvesting Buffer
<b>Product code</b>	SJ001391
<b>Reference number</b>	Shin6190-3
<b>HS code</b>	3821.00
<b>Name of manufacturer</b>	Nissan Chemical Corporation
<b>Address</b>	5-1, Nihonbashi 2-Chome, Chuo-ku, Tokyo 103-6119, Japan
<b>Department</b>	Life Science Materials Development Dept.
<b>Telephone number</b>	+81(0)3-4463-8370
<b>Emergency number</b>	+86-10-6445-9191 (手机及固定电话) (24h) 400-817-9191 (固定电话、免费) (24h)
<b>Facsimile number</b>	+81(0) 3-4463-8371
<b>Recommended uses and restriction of uses</b>	For Research and development use only Do not use it for other purposes.

**2. HAZARDS IDENTIFICATION****Classification****Physical hazards**

<b>Explosive:</b>	No Classification
<b>Flammable gases:</b>	No Classification
<b>Flammable aerosols:</b>	No Classification
<b>Oxidising gases:</b>	No Classification
<b>Gases under pressure:</b>	No Classification
<b>Flammable liquid:</b>	No Classification
<b>Flammable solid:</b>	No Classification
<b>Self-reactive substances and mixture:</b>	No Classification
<b>Pyrophoric liquids :</b>	No Classification
<b>Pyrophoric solids:</b>	No Classification
<b>Self-heating substances and mixture:</b>	No Classification
<b>Substances and mixtures which in contact with water emit flammable gases:</b>	No Classification
<b>Oxidising liquids:</b>	No Classification
<b>Oxidising solids:</b>	No Classification

**Organic peroxides:** No Classification  
**Corrosive to metals:** No Classification

**Health hazards**

**Acute toxicity (Oral):** No Classification  
H300-303

**Acute toxicity (Dermal):** No Classification  
H310-313

**Acute toxicity (inhalation vapour):** No Classification  
H330-333

**Acute toxicity (Inhalation dust):** No Classification  
H330-333

**Acute toxicity (Inhalation mist):** No Classification

**Skin corrosion / irritation:** No Classification

**Serious eye damage / eye irritation:** No Classification

**Respiratory or skin sensitisation:** No Classification

**Respiratory sensitisation:**

**Skin sensitisation:**

**Germ cell mutagenicity:** No Classification

**Carcinogenicity:** No Classification

**Reproductive toxicity:** No Classification

**Specific target organ toxicity (Single exposure):** No Classification

**Specific target organ toxicity (Repeated exposure):** No Classification

**Aspiration hazard:** No Classification  
No Classification

**Hazardous to the aquatic environment** No Classification

**Acute(short-term) aquatic hazard:** No Classification

**Long-term aquatic hazard:** No Classification

**Additional EU hazard class** No Classification

**Hazardous to the ozone layer** No Classification

Hazards not mentioned above are “not applicable” or “classifications are not possible”

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

**Substance/mixture:** Mixture  
**Generic name:** Harvesting Buffer

Ingredient	Concentration or concentration range	Chemical property	EC number	CAS number	Hazard code (Refer to Section 16)	REACH status (Registration No.)
Distilled water	≤99%	H <sub>2</sub> O	231-791-2	7732-18-5	No classification	—
Sodium Chloride	0.9%	NaCl	231-598-3	7647-14-5	No classification	—

**Synonyms:** No information

**Impurities and/or additives (stabilizer) considered for classification:** No information

**Chemical Structure**

### 4. FIRST AID MEASURES

#### General information

**Inhalation** · Move the patient to the outside with fresh air and rest them in a posture which will ease breathing.

· Consult a doctor if the patient is feeling unwell.

**Skin contact** · Wash skin immediately. Consult a doctor if the appearance of the skin has changed. Consult a doctor if the patient is feeling unwell.

**Eye contact** · Wash eye(s) immediately and thoroughly with clean running water for a few minutes.

· Seek medical treatment from a doctor if eye irritation persists.

· Wash eye(s) immediately and thoroughly with clean running water for a few minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Ingestion** · Rinse mouth with water. Consult with a doctor immediately about treatment if the patient is feeling unwell.

**Self-protection of the first aider** · NOTE: Wear a protective glove when inducing vomiting by mechanical means.

**Information to physician** Symptoms:

Hazards:

Treatment:

## 5. FIRE-FIGHTING MEASURES

<b>Fire extinguisher</b>	· Powder or foam extinguisher
<b>Fire extinguisher, not to use</b>	No information
<b>Specific hazards</b>	No information
<b>Fire fighting procedures</b>	No information
<b>Protective equipment for fire-fighters</b>	· Wear protective clothes to cover eyes, nose and mouth, e.g., face mask, while fighting fire.
<b>Additional information</b>	

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal safety precautions, protective equipment and emergency measures</b>	<ul style="list-style-type: none"> <li>· Wear suitable protective equipment and take extra care not to scatter the spillage while collecting.</li> <li>· Wipe up.</li> <li>· Collect residues in a flammable waste container</li> </ul>
<b>Environmental safety precautions</b>	· Take extra care to prevent release into river(s) or stream(s), which could contaminate the environment.
<b>Collection and neutralisation, Methods and equipment for containment and cleaning</b>	<ul style="list-style-type: none"> <li>· Seek specialist advice if a large volume of spillage has to be removed or disposed.</li> <li>· Block leakage if not dangerous to do so.</li> </ul>
<b>Preventive measures for secondary fire</b>	<ul style="list-style-type: none"> <li>· Isolate flammable materials (e.g., wood, paper, oil) from the leaked material.</li> <li>· Prevent the leaked material from entering into drains, sewers, basements or enclosed areas.</li> </ul>
<b>Additional information</b>	

## 7. HANDLING AND STORAGE

<b>Handling</b>	
<b>Advice on safe handling</b>	<ul style="list-style-type: none"> <li>· Avoid all personal contact, including inhalation.</li> <li>· Wear protective clothing when risk of exposure occurs.</li> </ul>
<b>Technical measures</b>	· Use protective equipment as described in section 8 of this MSDS.
<b>Local or general ventilation</b>	

**Safety precautions**

- Wash hands and face, and rinse mouth thoroughly after handling.
- Do not put the container(s) on its side, drop, expose to shock, or drag while handling.

**Further information**

**Storage**

**Technical measures**

- Keep containers securely sealed.
- Ensure walls, pillars and floors form a fire resistant structure. Use non-flammable material for beams.
- Store away from incompatible materials in a cool, dry well ventilated area.

**Storage conditions**

- Do not store the material under direct sunlight. Store material in a cool and well-ventilated place.

**Materials for containers and package**

No information

**Further information**

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Controlled concentration and permitted concentration limit**

	Control Concentration (MHLW)	ACGIH
Harvesting Buffer	Not determined	Not determined

**Facilities**

**Protective equipment**

**Protection of respiratory organs**

**Hand protection**

- Wear gloves suitable for protection against chemicals.

**Eye protection**

- Wear suitable protective goggles.

**Skin/body protection**

- Wear protective boots and full protective suit.

**Personal hygiene**

- Do not eat, drink or smoke while using the product.
- Wash hands thoroughly after handling.

**Environmental controls**

- Substance is used under strictly controlled conditions

**9. PHYSICAL AND CHEMICAL PROPERTIES**

as PRODUCT

<b>Appearance</b>	Clear Liquid
<b>Odour</b>	Odour-free
<b>pH</b>	No information
<b>Melting point/ range</b>	No information
<b>Boiling point / range</b>	100 °C
<b>Flash point</b>	Non-flammable
<b>Spontaneous ignition point</b>	No information
<b>Flammability (solid, gas)</b>	No information
<b>Vapour pressure</b>	No information
<b>Density (Specific gravity)</b>	No information
<b>Bulk density</b>	No information
<b>Water solubility</b>	Miscible
<b>Solubility</b>	No information
<b>Octanol/water partition coefficient</b>	No information
<b>Viscosity, dynamic</b>	No information
<b>Decomposition</b>	No information
<b>Dust explosion hazard</b>	No information
<b>Explosion limits</b>	Lower: No information Upper: No information
<b>Further information</b>	

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	· Stable under normal conditions
<b>Conditions to avoid</b>	· None known
<b>Hazardous reactions</b>	· None known
<b>Materials to avoid</b>	· None known
<b>Hazardous decomposition products</b>	· None known

**11. TOXICOLOGICAL INFORMATION**

as PRODUCT

	<b>INFORMATION</b>
<b>Acute toxicity (Oral)</b>	LD50: No information

<b>Acute toxicity (Dermal)</b>	LD50: No information
<b>Acute toxicity (inhalation vapour)</b>	LC50: No information
<b>Acute toxicity (Inhalation dust)</b>	No information
<b>Acute toxicity (Inhalation mist)</b>	No information
<b>Skin corrosion / irritation</b>	No information
<b>Serious eye damage / eye irritation</b>	No information
<b>Respiratory sensitisation</b>	No information
<b>Skin sensitisation</b>	No information
<b>Germ cell mutagenicity</b>	No information
<b>Carcinogenicity</b>	No information
<b>Reproductive toxicity</b>	No information
<b>Specific target organ toxicity (Single exposure)</b>	No information
<b>Specific target organ toxicity (Repeated exposure)</b>	No information
<b>Aspiration hazard</b>	No information
<b>Further information</b>	No information

## 12. ECOLOGICAL INFORMATION

<b>Environmental hazard</b>	No information
<b>Ecological toxicity</b>	No information
<b>Acute fish toxicity</b>	LC50: No information
<b>Acute daphnia toxicity</b>	EC50: No information
<b>Acute algae toxicity</b>	ErC50: No information
<b>Degradability</b>	No information
<b>Abiotic degradation</b>	No information
<b>Biodegradation</b>	No information
<b>Bioaccumulation</b>	No information
<b>Longterm Ecotoxicity</b>	No information
<b>Further information</b>	

## 13. DISPOSAL CONSIDERATIONS

<b>Waste/residue</b>	<ul style="list-style-type: none"> <li>•Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area.</li> </ul>
<b>Contaminated containers/packages</b>	<ul style="list-style-type: none"> <li>•Observe all label safeguards until containers are cleaned and destroyed.</li> </ul>
<b>Waste codes to EWC</b>	
<b>Additional information</b>	

**14. TRANSPORT INFORMATION****Maritime regulations** (IMDG regulation Not Restricted)

<b>UN No.</b>	Not applicable
<b>Product Name</b>	Harvesting Buffer
<b>Class</b>	Not applicable
<b>Packing Group</b>	Not applicable
<b>Marine pollutant</b>	The product should not be marked as a marine pollutant.

**Aviation regulations** (ICAO and IATA regulations)

<b>UN No.</b>	Not applicable
<b>Product Name</b>	Not applicable
<b>Class</b>	Not applicable
<b>Packing Group</b>	Not applicable

**Land regulations** (ADR/RID)

<b>UN No.</b>	Not applicable
<b>Product Name</b>	Not applicable
<b>Class</b>	Not applicable
<b>Packing Group</b>	Not applicable

**Special Safety Measures**

- Refer to the previous section "Section 7 Handling and Storage".
- During transport, pack products in containers, which are not damaged, corroded or leaking, and avoid exposure to direct sun light. Load up the containers securely to prevent load shifting.

**15. REGULATORY INFORMATION****Not Restricted****16. OTHER INFORMATION**

**Hazard Code on Ingredients** (Refer to Section 3)  
**Other**

Not applicable

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