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

Product name	1.0 % FCeM [®] Cellhesion [®] Aqueous Suspension
Product code	SJ001094
Reference number	Shin4917-3
HS code	3821.00
Name of manufacturer	Nissan Chemical Corporation
Address	5-1, Nihonbashi 2-Chome, Chuo-ku, Tokyo 103-6119, Japan
Department	Life Science Materials Development Dept.
Telephone number	+81(0)3-4463-8370
Emergency number	+86-10-6445-9191 (手机及固定电话) (24h) 400-817-9191 (固定电话、免费) (24h)
Facsimile number	+81(0)3-4463-8371
Recommended uses and restriction of uses	For Research and development use only Do not use it for other purposes.

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

Explosive:	No Classification
Flammable gases:	No Classification
Flammable aerosols:	No Classification
Oxidising gases:	No Classification
Gases under pressure:	No Classification
Flammable liquid:	No Classification
Flammable solid:	No Classification
Self-reactive substances and mixture:	No Classification
Pyrophoric liquids :	No Classification
Pyrophoric solids:	No Classification
Self-heating substances and mixture:	No Classification
Substances and mixtures which in contact with water emit flammable gases:	No Classification
Oxidising liquids:	No Classification
Oxidising solids:	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: FCeM[®] Cellhesion[®]

Ingredient	Concentration or concentration range	Chemical property	EC number	CAS number	Hazard code (Refer to Section 16)	REACH status (Registration No.)
FCeM [®] Cellhesion [®]	1.0 %	Non-disclosure	—	Non-disclosure	No classification	—
Distilled water	99.0 %	H ₂ O		7732-18-5	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

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

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

Handling	
Advice on safe handling	<ul style="list-style-type: none"> · Avoid all personal contact, including inhalation. · Wear protective clothing when risk of exposure occurs.

- Technical measures** ·Use protective equipment as described in section 8 of this MSDS.
- Local or general ventilation**
- 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
FCeM [®] Cellhesion [®]	Not applicable	Not applicable
Distilled water	Not applicable	Not applicable

Facilities**Protective equipment**

Protection of respiratory organs
Hand protection

- Wear gloves suitable for protection against chemicals.

Eye protection
Skin/body protection

- Wear suitable protective goggles.
·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

Appearance	White Liquid Suspension
Odour	Odour-free
pH	Not applicable
Melting point/ range	Not applicable
Boiling point / range	Not applicable
Flash point	Not applicable
Spontaneous ignition point	Not applicable
Flammability (solid, gas)	Not applicable
Vapour pressure	Not applicable
Density (Specific gravity)	Not applicable
Bulk density	Not applicable
Water solubility	Not applicable
Solubility	Not applicable
Octanol/water partition coefficient	Not applicable
Viscosity, dynamic	Not applicable
Decomposition	Not applicable
Dust explosion hazard	Not applicable
Explosion limits	Lower: Not applicable Upper: Not applicable
Further information	

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

as PRODUCT

INFORMATION

Acute toxicity (Oral)	LD50: >50mg/Kg (Rat) as FCeM [®] Cellhesion [®] Powder (i.v.)
Acute toxicity (Dermal)	LD50: No information
Acute toxicity (inhalation vapour)	LC50: No information
Acute toxicity (Inhalation dust)	No information
Acute toxicity (Inhalation mist)	No information
Skin corrosion / irritation	No information
Serious eye damage / eye irritation	No information
Respiratory sensitisation	No information
Skin sensitisation	No information
Germ cell mutagenicity	No information
Carcinogenicity	No information
Reproductive toxicity	No information
Specific target organ toxicity (Single exposure)	No information
Specific target organ toxicity (Repeated exposure)	No information
Aspiration hazard	No information
Further information	No information

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

Waste/residue	·Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area.
Contaminated containers/packages	·Observe all label safeguards until containers are cleaned and destroyed.
Waste codes to EWC	
Additional information	

14. TRANSPORT INFORMATION

Maritime regulations (IMDG regulation Not Restricted)

UN No.	Not applicable
Product Name	1% FCeM [®] Cellhesion [®] aqueous suspension
Class	Not applicable
Packing Group	Not applicable
Marine pollutant	The product should not be marked as a marine pollutant.

Aviation regulations (ICAO and IATA regulations)

UN No.	Not applicable
Product Name	Not applicable
Class	Not applicable
Packing Group	Not applicable

Land regulations (ADR/RID)

UN No.	Not applicable
Product Name	Not applicable
Class	Not applicable
Packing Group	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.
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15. REGULATORY INFORMATION

Not Restricted

16. OTHER INFORMATION

Hazard Code on Ingredients (Refer to Section 3)	Not applicable
Other	NO REPRESENTABILITY OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE WITH

RESPECT TO THE INFORMATION CONTAINED HEREIN OR
TO THE PRODUCT TO WHICH THE INFORMATION REFERS.