



## SAFETY DATA SHEET

### 1. Chemical product and company identification

<b>Product name</b>	FUJI DRI-CHEM REFERENCE FLUID RE
<b>Product usage</b>	FUJI DRI-CHEM: Reference for electrolyte
<b>Company Name</b>	FUJIFILM Corporation
<b>Address</b>	2-26-30, Nishiazabu, Minato-ku, Tokyo, 106-8620
<b>Division</b>	Medical Systems Business Div.
<b>Telephone Number</b>	03-6418-2199
<b>FAX Number</b>	03-6418-9350
<b>Emergency Contacts</b>	Japan Poison Information Center (In case of accidental poisoning call either)
<b>Telephone Number</b>	Poison Help Emergency Call : Oosaka 072-727-2499(24hrs) Tsukuba 029-852-9999(9a.m-9p.m.)
<b>Reference number</b>	DC101101G

### 2. Hazards identification

#### GHS classification

<b>Health hazards</b>	Acute toxicity, oral	Not classified
	Skin corrosion/irritation	Not classified
	Serious eye damage/eye irritation	Not classified

\*Degree of Hazards: Smaller category number is more hazardous.

\*Hazards not stated here are "Not applicable" or "Classification not possible".

**National/local information** See Section 15. REGULATORY INFORMATION

### 3. Composition/information on ingredients

**Substance or mixture** Mixtures

Components	CAS #	Gazette notification		Concentration (%)
		ENCS no.	ISHL no.	
water	7732-18-5	-----		80 - 100
glycerin	56-81-5	2-242	(2)-242, (7)-338	1 - 5
polyvinylpyrrolidone	9003-39-8	6-1007	(6)-1007, (6)-1048	1 - 5
sodium azide	26628-22-8	1-482	(1)-482	0 - 0.1

**Chemical formula** H<sub>2</sub>O (7732-18-5), C<sub>3</sub>H<sub>8</sub>O<sub>3</sub> (56-81-5), (C<sub>6</sub>H<sub>9</sub>NO)<sub>x</sub> (9003-39-8), C<sub>6</sub>H<sub>9</sub>NO (9003-39-8), NaN<sub>3</sub> (26628-22-8)

(\*) Generally chemical substances greater than 1% of the total are listed.

Note: The notes / remarks within the brackets [ ] following the chemical substance names are used to communicate the following indications:

"PRTR S1" : Chemical substances that are designated in the Law for Promoting the Management of Chemical Substances as Specific Class 1 Chemical Substances.

"PRTR 1" : Chemical substances that are designated as Class 1 Chemical substances in the same Law.

"PRTR 2" : Chemical substances that are designated as Class 2 Chemical substances in the same Law.

"SSN" : Chemical substances that are subject to notification in accordance with the Labor Safety and Health Law.

### 4. First aid measures

<b>If inhaled</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.
<b>If on skin</b>	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
<b>If in eyes</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>If swallowed</b>	Rinse mouth. Get medical attention if any discomfort continues.
<b>Protection of first-aid responders</b>	Rescuers should wear proper personal protective equipment suitable for situation.

## 5. Fire-fighting measures

<b>Extinguishing media</b>	Dry chemical, foam, carbon dioxide, water fog.
<b>Extinguishing media to avoid</b>	None.
<b>Special fire fighting procedures</b>	Keep personnel removed from and upwind of fire. Water runoff can damage the environment. Dike and collect water used to fight fire. Evacuate area and fight fire from a safe distance.
<b>Protection of fire-fighters</b>	Wear adequate personal protective equipment.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency measures</b>	Wear adequate personal protective equipment, see Section 8 (Exposure Controls/Personal Protection)
<b>Environmental precautions</b>	Prevent from entering into soil, waterways and ground water.
<b>Clean-up methods and materials and containment measures</b>	Spills should be contained by, and covered with suitable absorbent material and removed for disposal.

## 7. Handling and storage

### Handling

<b>Technical measures</b>	Avoid contact with skin, eyes and clothing. Wash hands after handling.
<b>Local and general ventilation</b>	Use only with adequate ventilation.
<b>Precautions</b>	See Section 8 (Exposure Controls/Personal Protection).
<b>Safe handling advice</b>	See Section 10 (Stability and reactivity).

### Storage

<b>Suitable storage conditions</b>	Protect from sunlight. Keep container tightly closed.
<b>Safe packaging materials</b>	Use plastic container that have enough toughness.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### ACGIH

Components	Type	Value	Form
glycerin (CAS 56-81-5)	TWA	10 mg/m <sup>3</sup>	Mist.

#### US. ACGIH Threshold Limit Values

Components	Type	Value
sodium azide (CAS 26628-22-8)	Ceiling	0.29 mg/m <sup>3</sup>
		0.11 ppm

**Engineering measures** Evacuate and ventilate spill area. Provide easy access to water supply and eye wash facilities.

### Personal protective equipment

<b>Respiratory protection</b>	Wear suitable respiratory protection.
<b>Hand protection</b>	Wear suitable gloves.
<b>Eye protection</b>	Use eye protection. Use face shield in case of splash risk.
<b>Skin and body protection</b>	Wear suitable protective clothing.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

### Appearance

<b>Form</b>	Liquid.
<b>Color</b>	Clear.

**Odor** Odorless.

**pH** 8.35

**Melting point/Freezing point** No data available.

**Boiling point, initial boiling point, and boiling range** No data available.

**Flash point** Not flammable

**Auto-ignition temperature** No data available.

<b>Flammability limit - lower (%)</b>	No data available.
<b>Flammability limit - upper (%)</b>	No data available.
<b>Vapor pressure</b>	No data available.
<b>Vapor density</b>	No data available.
<b>Specific gravity</b>	No data available.
<b>Density</b>	No data available.
<b>Solubility (water)</b>	No data available.
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Decomposition temperature</b>	No data available.

## 10. Stability and reactivity

<b>Stability</b>	Stable at normal conditions.
<b>Possibility of hazardous reactions</b>	Mixing with a acid or a heavy metal may form highly explosive metal azides.
<b>Conditions to avoid</b>	Freezing. Protect against direct sunlight.
<b>Incompatible materials</b>	Acids. Heavy metals.
<b>Hazardous decomposition products</b>	CO,CO2
<b>Other information</b>	May be released the harmful hydrogen azide when mixing with acids.

## 11. Toxicological information

Product	Species	Test Results
FUJI DRI-CHEM REFERENCE FLUID RE		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	> 2000 mg/kg
<b>Skin corrosion/irritation</b>	slight	
<b>Serious eye damage/eye irritation</b>	non irritant	
<b>Carcinogenicity</b>	Substances in group [1;2A;2B] by IARC (International Agency for Research on Cancer):None	

## 12. Ecological information

<b>Bioaccumulation</b>	Not established.
<b>Mobility in soil</b>	Not established.
<b>Other hazardous effects</b>	Not established

## 13. Disposal considerations

When your own wastewater treatment plant is not available, collect entire waste and then charge to a licensed industrial waste management professional with manifests for industrial waste. Laws and regulations to be followed while disposing of this product or waste: Japanese Waste Control and Public Cleaning Law: Falls under the category of an industrial waste (alkaline waste) Japanese Water Pollution Control Law: Effluent standard Japanese Sewer Management Law: Restricts discharging sewer.

## 14. Transport information

Marine transportation is regulated by IMDG Code. Air transportation is regulated by IATA Dangerous Goods Regulations.  
 ----- Information for marine and air transportation to be passed to the shipping company -----

### International regulations

#### IMDG

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

## 15. Regulatory information

### Law concerning the Examination and Regulation of Manufacture etc. of Chemical Substances

**Class 1 Specified Chemical Substance:** Not regulated.

<b>Class 2 Specified Chemical Substance:</b>	Not regulated.
<b>Monitoring Chemical Substances:</b>	Not regulated.
<b>Priority Assessment Chemicals:</b>	Not regulated.
<b>Industrial Safety and Health Law</b>	
<b>Dangerous Substances Flammable:</b>	Not regulated.
<b>Dangerous Substances Flammable Gases:</b>	Not regulated.
<b>Dangerous Substances Oxidizing:</b>	Not regulated.
<b>Dangerous Substances Explosives:</b>	N/A
<b>Dangerous Substances Ignitable:</b>	Not regulated.
<b>Harmful Substances Carcinogen:</b>	Not regulated.
<b>Class 1 Designated Chemical Substances:</b>	Not regulated.
<b>Class 2 Designated Chemical Substances:</b>	Not regulated.
<b>Class 3 Designated Chemical Substances:</b>	Not regulated.
<b>Class 1 Organic Solvents Preparations:</b>	Not regulated.
<b>Class 2 Organic Solvents Preparations:</b>	Not regulated.
<b>Class 3 Organic Solvents Preparations:</b>	Not regulated.
<b>Notifiable Substance:</b>	N/A
<b>Labeling Requirements:</b>	Not regulated.
<b>Others:</b>	Not regulated.
<b>Poisonous and Deleterious Substances Control Law</b>	
<b>Specified Poisonous Substance - Main Law:</b>	Not regulated.
<b>Specified Poisonous Substance - Cabinet Order:</b>	Not regulated.
<b>Poisonous Substances - Main Law:</b>	Not regulated.
<b>Poisonous Substances - Cabinet Order:</b>	Not regulated.
<b>Deleterious Substances - Main Law:</b>	Not regulated.
<b>Deleterious Substances - Cabinet Order:</b>	Not regulated.
<b>Enforcement Order Article 32-2:</b>	Not regulated.
<b>Enforcement Order Article 32-3:</b>	Not regulated.
<b>Not Considered Poisonous:</b>	Not regulated.
<b>Not Considered Deleterious:</b>	Not regulated.
<b>Fire Service Law</b>	
<b>Class 1 Oxidizing Solids:</b>	Not regulated.
<b>Class 2 Flammable Solids:</b>	Not regulated.
<b>Class 3 Spontaneous combustibility and Water-reactivity Substances:</b>	Not regulated.
<b>Class 4 Flammable Liquids:</b>	N/A
<b>Class 5 Self-Reactive Substances:</b>	N/A
<b>Class 6 Oxidizing Liquids:</b>	Not regulated.
<b>Designated Flammable Substances:</b>	Not regulated.
<b>Storage Reporting Substance:</b>	Not regulated.
<b>Japan PRTR</b>	
<b>Specific Class 1 Designated Substance:</b>	Not regulated.
<b>Class 1 Designated Substance:</b>	N/A
<b>Class 2 Designated Substance:</b>	Not regulated.
<b>Ship Safety Law</b>	Not regulated.
<b>Civil Aeronautics law</b>	Not regulated.
<b>Japan Marine Pollution Prevention Law</b>	Not regulated.
<b>High Pressure Gas Safety law</b>	Not regulated.
<b>Gun Powder Control Law</b>	Not regulated.

## 16. Other information

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.