JNC CORPORATION

SAFETY DATA SHEET

This safety data sheet complies with the requirements of: JIS Z 7253:2019

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1. Identification Product Name Cellufine MAX Q-r/Cellufine MAX Q-h Safety data sheet number CPS-F-0037M Registration Number(s) PPN-FM-00018 Details of the supplier of the safety data sheet Manufacturer JNC Corporation,
Shin Otemachi Bldg.,2-1,Otemachi 2-Chome,Chiyoda-ku,Tokyo 100-8105 Japan Japan

Emergency telephone number +81-3-3243-6150

Recommended use of the chemical and restrictions on use

Recommended Use Liquid Chromatography

Restrictions on use Please do not use for other than recommended use.

2. Hazard(s) identification

GHS Classification	
Flammable liquids	Category 3
Acute toxicity - Oral	Classification not possible
Acute toxicity - Dermal	Classification not possible
Acute toxicity - Inhalation (Gases)	Classification not applicable
Acute toxicity - Inhalation (Vapors)	Classification not possible
Acute toxicity - Inhalation (Dusts/Mists)	Classification not possible
Skin corrosion/irritation	Classification not possible
Serious eye damage/eye irritation	Category 2B
Respiratory sensitization	Classification not possible
Skin sensitization	Classification not possible
Germ cell mutagenicity	Classification not possible
Carcinogenicity	Category 1A
Reproductive toxicity	Category 1A
Specific target organ toxicity (single exposure)	Classification not possible
Specific target organ toxicity (repeated exposure)	Category 1
Category 1 Liver.	
Category 2 Central nervous system.	
Aspiration hazard	Classification not possible
Acute aquatic toxicity	Classification not possible
Chronic aquatic toxicity	Not classified
Ozone	Classification not possible

GHS label elements



Signal word Danger Hazard statements Causes eye irritation May cause cancer May damage fertility or the unborn child Causes damage to organs through prolonged or repeated exposure Flammable liquid and vapor Causes damage to the following organs through prolonged or repeated exposure: Liver. May cause damage to the following organs through prolonged or repeated exposure: Central nervous system.

Precautionary statements

Prevention

- · Obtain special instructions before use
- · Do not handle until all safety precautions have been read and understood
- Wear protective gloves/clothing and eye/face protection
- Wash face, hands and any exposed skin thoroughly after handling
- Do not breathe dust/fume/gas/mist/vapors/spray
- Do not eat, drink or smoke when using this product
- Ground and bond container and receiving equipment
- Use non-sparking tools
- Take action to prevent static discharges
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- Keep container tightly closed
- Use explosion-proof electrical/ ventilating / lighting/ .? / equipment

Response

- IF exposed or concerned: Get medical advice/attention
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- · If eye irritation persists: Get medical advice/attention
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]
- In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

Storage

- · Store locked up
- Store in a well-ventilated place. Keep cool

Disposal

· Dispose of contents/container to an approved waste disposal plant

Other hazards

No information available.

3. Composition/information on Ingredients

Pure substance/mixture

Mixture

Chemical name	CAS No	Weight-%	ENCS	ENCS	ISHL	ISHL No
		-	Inventory	Number	Inventory	
Cellufine MAX-Q-r / MAX-Q-h	1789712-68-0	10	No information available		No information available	

water	7732-18-5	72-82	Existing	-	No information	
					available	
Ethanol	64-17-5	8-18	Existing	(2)-202	Existing	(2)-202

4. First-aid measures	
General advice	IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.
In case of inhalation	Remove to fresh air.
In case of skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists. Remove contact lenses, if present and easy to do. Continue rinsing.
In case of ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
Most important symptoms/effects, acute and delayed	No information available.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information.
Note to physicians	Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special Extinguishing Media Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient. Firefighters should wear self-contained breathing apparatus and full firefighting turnout
	gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective
equipment and emergencyEvacuate personnel to safe areas. Use personal protective equipment as required. See
section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate

procedures	ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.
For emergency responders	Use personal protection recommended in Section 8.
Environmental precautions	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Methods for containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.
Prevention of secondary hazards	Promptly remove all ignition sources. Prohibition of smoking, sparks and flames in the vicinity.
Other information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

7. Handling and Storage

Handling

Technical measures	Wear appropriate protective equipment. Handle in a place with adequate ventilation. Away from heat, sparks and open flames. Do not inhale or swallow.
Local and General Ventilation	Perform local exhaust and general ventilation in item 8.
Advice on safe handling	Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes.
Prevents Handling of Incompatible Substances or Mixtures	See Section 10, Reactivity, Conditions to Avoid, Dangerous Goods to Touch.
Hygiene Measures	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing.
Storage	
Storage Conditions	Store under refrigeration at 2°C to 8°C (35.6°F to 46.4°F). Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

Material of vessels and packaging Store in a sealed container to shield light.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure guidelines

Chemical name	Japan Society of Occupational Health	ISHL Working Environmental Evaluation Standards - Administrative Control Levels	ACGIH TLV	
Ethanol 64-17-5	-	-	STEL: 1000 ppm	
Biological occupational expos limits	ure This product, as supplied, established by the region	does not contain any hazardous specific regulatory bodies	materials with biological limits	
Engineering controls	Showers Eyewash stations Ventilation systems.	Eyewash stations		
Environmental exposure contr	ols No information available.	No information available.		
Personal protective equipment				
Respiratory protection		No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.		
Hand protection	Wear suitable protective g	Wear suitable protective gloves. Impervious gloves.		
Eye/face protection	Tight sealing safety goggle	es. Wear safety glasses with side	shields (or goggles).	
Skin and body protection	Wear suitable protective c boots.	Wear suitable protective clothing. Impervious clothing. Chemical resistant apron. Antistat boots.		

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Physical state Color	White-slightly grayish wet beads Liquid colorless	
<u>Property</u> Melting point / freezing point Initial boiling point and boiling range Flammability Upper/lower flammability or explosive limits		<u>Remarks • Method</u>
Lower flammability or explosive limits	No data available	

Flash point Evaporation rate Autoignition temperature Decomposition temperature pH Viscosity	35 - 38 °C / 95 - 100.4 °F Tag Closed Cup No data available No data available No data available No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available
Water solubility	No data available
Solubility(ies)	No data available
Partition Coefficient	No data available
(n-octanol/water)	
Vapor pressure	No data available
Density and/or relative density	
Relative density	No data available
Vapor density	No data available
Bulk density	No data available
Relative vapor density	No data available
Particle characteristics	
Particle Size	
Particle Size Distribution	

Other information

10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	S Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide.
Explosion data	

Sensitivity to static discharge Yes. Sensitivity to mechanical impact None.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document mg/kg ppm ATEmix (inhalation-dust/mist) 649.40 mg/l

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
water	> 90 mL/kg (Rat)	-	-

Ethanol	= 7060 mg/kg (Rat)	-	= 116.9 mg/L (Rat) 4 h = 133.8 mg/L (Rat) 4 h		
Abbreviations and acronyms Rat: Rat					
Symptoms	May cause redness and to	May cause redness and tearing of the eyes.			
Product Information					
Ingestion	Specific test data for the s	Specific test data for the substance or mixture is not available.			
Inhalation	Specific test data for the substance or mixture is not available.				
Skin contact	Specific test data for the substance or mixture is not available.				
Eye contact	Specific test data for the substance or mixture is not available. Causes eye irritation. May cause redness, itching, and pain.				
Skin corrosion/irritation	May cause skin irritation.				
Serious eye damage/eye irritatior	Classification based on data available for ingredients. Causes eye irritation.				
Carcinogenicity	Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.				

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	Japan	IARC	Japan - ISHL Designated Carcinogens
Ethanol 64-17-5	1A	Group 1	

Legend

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Reproductive toxicity	Classification based on data available for ingredients. May damage fertility or the unborn child.
Target organ effects	Liver. Respiratory system. Eyes. Skin. Central nervous system. Blood. Reproductive system.
STOT - repeated exposure	Causes damage to organs through prolonged or repeated exposure.

Causes damage to the following organs through prolonged or repeated exposure: Liver. May cause damage to the following organs through prolonged or repeated exposure: Central nervous system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Crustacea
Ethanol	-	LC50: 12.0 - 16.0mL/L (96h,	LC50: 9268 - 14221mg/L (48h,
		Oncorhynchus mykiss)	Daphnia magna)
		LC50: >100mg/L (96h,	EC50: =2mg/L (48h, Daphnia
		Pimephales promelas)	magna)
		LC50: 13400 - 15100mg/L (96h,	
		Pimephales promelas)	

Persistence and degradability No information available.

Bioaccumulation There is no data for this product.

Component Information

Chemical name		Partition coefficient	
Ethanol 64-17-5		-0.35	
Mobility in soil	No information available.		
Hazardous to the ozone layer	Classification not possible. Based on available data, the classification criteria are not me		
Other adverse effects	No information available.		

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

14. TRANSPORT INFORMATION			
IMDG Special Provisions	Not regulated Non-hazardous under these transport regulations. Aqueous solutions containing a maximum of 24% alcohol by volume are not subject to these transport regulations		
ADR_ Special Provisions	Not regulated Non-hazardous under these transport regulations. Aqueous solutions containing a maximum of 24% alcohol by volume are not subject to these transport regulations		
IATA Special Provisions	Not regulated Non-hazardous under these transport regulations. Aqueous solutions containing a maximum of 24% alcohol by volume are not subject to these transport regulations		

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture National regulations Pollutant Release and Transfer Register (PRTR) Not applicable

Industrial Safety and Health Law

Harmful Substances Whose Names Are to be Indicated on the Label

Article 57-1 of ISHL, Article 18, Item 1, Item 2, Appended Table 9 and Item 3, Appended Table 3 of Order for Enforcement

Chemical name	Ministerial Ordinance Name	CAS No	Content rate %	Implementation date
Ethanol	Ethanol	64-17-5	18	

ISHL Notifiable Substances

Article 57-2 of the ISHL, Article 18-2, Item 1, Item 2, Appended Table 9 and Item 3, Appended Table 3 of Order for Enforcement Harmful substances requiring risk assessment

Article 57-3 of the ISHL

Chemical name	Ministerial Ordinance Name	CAS No	Content rate %	Implementation date
Ethanol	Ethanol	64-17-5	18	

Harmful substances requiring risk assessment

Article 57-3 of the ISHL

Poisonous and Deleterious Substances Control Law

Not applicable Fire Service Law:

No

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (CSCL) No

Ship (Marine Transportation) Safety Act

See section 14 for more information **Civil Aeronautics Act** See section 14 for more information **Act on Prevention of Marine Pollution and Maritime Disaster** Not applicable **Act on Port Regulation Law** See section 14 for more information

International Regulations

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories	
TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
IECSC	Not included
AIIC	Does not comply

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AIIC - Australian Inventory of Industrial Chemicals

16. Other Information

Revision date Revision Note	25-Aug-2023 1.					
Key or legend to abbreviations and acronyms used in the safety data sheet Legend Section 8: Exposure controls/personal protection						
TWA Ceiling +	TWA (time-weighted average) Maximum limit value Sensitizers	STEL *	STEL (Short Term Exposure Limit) Skin designation			
<u>Legend</u> IMDG	International Maritime Dangerous Goods (IMDG)	ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road			
ΙΑΤΑ	International Air Transport Association (IATA)					
Agency for Toxic 3 U.S. Environment European Chemic European Food S EPA (Environment Acute Exposure G U.S. Environment U.S. Environment Food Research Jo Hazardous Substa International Unifo Japan GHS Class Australia National NIOSH (National I National Library o National Library o National Toxicolog New Zealand's Ch Organization for E	afety Authority (EFSA) tal Protection Agency) suideline Level(s) (AEGL(s)) al Protection Agency Federal Insecticide, Fung al Protection Agency High Production Volume burnal ance Database form Chemical Information Database (IUCLID) ification Industrial Chemicals Notification and Assessm nstitute for Occupational Safety and Health) f Medicine's ChemID Plus (NLM CIP) f Medicine's PubMed database (NLM PUBMEI gy Program (NTP) hemical Classification and Information Databas fconomic Co-operation and Development Envir fconomic Co-operation and Development High	picide, and Rodentic Chemicals nent Scheme (NICN D) e (CCID) ronment, Health, an Production Volume	IAS) nd Safety Publications e Chemicals Program			

This SDS complies with the requirements of JIS Z 7253:2019 (Japan). The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet