

## 1. Identification

<b>GHS product identifier</b>	<b>LUMIFLON LF200C</b>
<b>SDS number</b>	AGC-J-0450
<b>Version No.</b>	01
<b>Issue date</b>	16-December-2020
<b>CAS #</b>	Mixture
<b>Recommended use</b>	Raw material for industry
<b>Recommended Restrictions</b>	Not available.
<b>Manufacturer</b>	
<b>Company name</b>	AGC Inc. Chemicals Company Coating Business Group
<b>Address</b>	1-5-1, Marunouchi, Chiyoda-ku, Tokyo 100-8405, Japan
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<b>Emergency telephone number</b>	Verisk 3E (Access Code 335170)
	Europe: +0-800-680-0425
	Asia Pacific: +1-760-476-3960,+66-21056177, +81-368908677
	Middle East & Africa: +1-760-476-3959
	US, Canada,Mexico: +1-866-519-4752
	Other countries: +1-760-476-3971

## 2. Hazards identification

### GHS classification

<b>Physical hazards</b>	Flammable liquids	Category 3
	Pyrophoric liquids	Not classified
<b>Health hazards</b>	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Carcinogenicity	Category 2
	Reproductive toxicity	Category 1B
	Specific target organ toxicity following single exposure	Category 1 (central nervous system, kidney, liver, respiratory organ)
	Specific target organ toxicity following single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity following single exposure	Category 3 narcotic effects
	Specific target organ toxicity following repeated exposure	Category 1 (nervous system, respiratory organ)
	Aspiration hazard	Not classified
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2

### GHS label elements

#### Signal word

Danger



#### Hazard statement

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H370	Causes damage to organs (central nervous system, kidney, liver, respiratory organ).
H372	Causes damage to organs (nervous system, respiratory organ) through prolonged or repeated exposure.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

## Precautionary statement

### Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P235	Keep cool.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe mist/vapours.
P261	Avoid breathing mist/vapours.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

### Response

P302 + P352	IF ON SKIN: Wash with plenty of water.
P312	Call a POISON CENTER/doctor/advice/if you feel unwell.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P311	IF exposed or concerned: Call a POISON CENTRE/doctor.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.

### Storage

P403 + P233	Store in a cool, dry place out of direct sunlight.
P403 + P235	Store in a well-ventilated place. Keep container tightly closed.
P405	Store in a well-ventilated place. Keep cool.
	Store locked up.

### Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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### Other hazards which do not result in classification

None known.

### Supplemental information

None.

## 3. Composition/information on ingredients

Components	CAS #	Percent
Fluorinated resin	Trade secret	60
Xylene	1330-20-7	21
Ethylbenzene	100-41-4	19

## 4. First aid measures

### First aid procedures

#### Inhalation

If gas/fume/vapour/dust/mist from the material is inhaled, remove the affected person immediately to fresh air.  
 If breathing stops, provide artificial respiration.  
 Oxygen or artificial respiration if needed.  
 Call a physician or poison control centre immediately.

<b>Skin</b>	Take off immediately all contaminated clothing. Wash off immediately with soap and plenty of water. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse. Wipe up with absorbent material (e.g. cloth, fleece). Do not use solvents and thinner for wipe up.
<b>Eye</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
<b>Ingestion</b>	Call a physician immediately. Rinse mouth. Do not induce vomiting.
<b>Most important symptoms and effects, both acute and delayed</b>	May cause drowsiness or dizziness. Direct contact with eyes may cause temporary irritation.
<b>Notes to physician</b>	Provide general supportive measures and treat symptomatically.
<b>General advice</b>	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Foam. Dry chemical powder. Dry sand. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.
<b>Protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In case of fire and/or explosion do not breathe fumes.
<b>Protection of fire-fighters</b>	Move containers from fire area if you can do so without risk. Fight fire from upwind area.
<b>General fire hazards</b>	Flammable liquid and vapour.
<b>Specific methods</b>	Remove flammable materials from the environment Use designated extinguishing media. Cool closed containers exposed to high temperatures with water.

## 6. Accidental release measures

<b>Personal precautions</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area).  Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.
<b>Environmental precautions</b>	Prepare a suitable fire extinguisher in case of ignition. Contact local authorities in case of spillage to drain/aquatic environment.
<b>Methods for containment</b>	Do not discharge to rivers. Be careful not to cause environmental impact Collect and dispose of spillage as indicated in section 13 of the SDS. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas.

## Methods for cleaning up

Ventilate the contaminated area. Wear appropriate protective equipment and clothing during clean-up. This product is miscible in water. Prevent product from entering drains. Do not allow material to contaminate ground water system.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

## 7. Handling and storage

### Handling

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight.

Explosion-proof general and local exhaust ventilation.

Take precautionary measures against static discharges.

All equipment used when handling the product must be grounded.

Use non-sparking tools and explosion-proof equipment.

Do not breathe mist/vapours.

Avoid contact with eyes, skin, and clothing.

Avoid prolonged exposure.

When using, do not eat, drink or smoke.

Pregnant or breastfeeding women must not handle this product.

Should be handled in closed systems, if possible.

Use only outdoors or in a well-ventilated area.

Wear appropriate personal protective equipment.

Wash hands thoroughly after handling.

Avoid release to the environment.

Observe good industrial hygiene practices.

### Storage

Store locked up.

Keep away from heat, sparks and open flame.

Prevent electrostatic charge build-up by using common bonding and grounding techniques.

Store in a cool, dry place out of direct sunlight.

Store in tightly closed container.

Store in a well-ventilated place.

Keep in an area equipped with sprinklers.

Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls / personal protection

### Control parameters

#### US. ACGIH Threshold Limit Values

##### Components

##### Type

##### Value

Ethylbenzene (CAS  
100-41-4)

TWA

20 ppm

Xylene (CAS 1330-20-7)

STEL

150 ppm

TWA

100 ppm

### Biological limit values

#### ACGIH Biological Exposure Indices

##### Components

##### Value

##### Determinant

##### Specimen

##### Sampling Time

Ethylbenzene (CAS  
100-41-4)

0.15 g/g

Sum of  
mandelic acid  
and  
phenylglyoxylic  
acid

Creatinine in  
urine

\*

Xylene (CAS 1330-20-7)

1.5 g/g

Methylhippuric  
acids

Creatinine in  
urine

\*

\* - For sampling details, please see the source document.

### Recommended monitoring procedures

Follow standard monitoring procedures.

**Engineering controls** Provide eyewash station and safety shower.  
 In case of indoor work, use auto application equipment or local ventilation equipment to prevent a worker from directly being exposed  
 When handling indoors, seal the source, or install a local exhaust system.  
 in case of working at closed place such as inner of tank, install ventilation equipment to ventilate up to the bottom of closed place.  
 The equipment shall be made with corrosion resistant material.  
 Make sure that workers do not directly touch or expose corrosive substances.  
 Attach emergency shower and eye washing equipment to work area and clearly display its position . Do not place high temperature or ignition source close to working place with this product.  
 Earth equipments for transportation, collection and stirring of this product.

**Personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin protection** Wear appropriate chemical resistant clothing.  
 Use of an impervious apron is recommended.

**Respiratory protection** Wear air supplied respiratory protection.  
 If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.  
 Chemical respirator with organic vapour cartridge.

**Hand protection** Wear appropriate chemical resistant gloves.

**9. Physical and chemical properties**

**Appearance**

**Physical state** Liquid.

**Colour** Light yellow. Clear.

**Form** Viscous

**Odour** Solvent odor

**Odour threshold** Not available.

**pH** Not available.

**Melting point/freezing point** Not available.

**Boiling point** 138 - 144 °C (280.4 - 291.2 °F)

**Flash point** 25.0 °C (77.0 °F) Setaflash

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not applicable.

**Flammability limits in air, lower, % by volume** 1 %

**Flammability limits in air, upper, % by volume** 7.6 %

**Vapour pressure** 0.6 - 0.9 kPa (20°C)

**Vapour density** Not available.

**Relative density** Not available.

**Solubility(ies)**

**Solubility (water)** < 0.6 % (Solubility of fluororesin in water)

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** 464 - 564 °C (867.2 - 1047.2 °F)

**Decomposition temperature** Not available.

**Viscosity** Not available.

**Density** 1.12 g/cm<sup>3</sup>

**Other data**

**Kinematic viscosity** 9.4 cm<sup>2</sup>/s

**10. Stability and reactivity**

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

**Possibility of hazardous reactions** Strong acids, strong oxidizing substances, and halogens can cause fires and explosions.

**Conditions to avoid** Avoid heat, sparks, open flames and other ignition sources.

<b>Incompatible materials</b>	Strong acids. Strong oxidising agents. Halogens.
<b>Hazardous decomposition products</b>	Not available.

## 11. Toxicological information

### Toxicological data

Components	Species	Test Results
Ethylbenzene (CAS 100-41-4)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	15400 mg/kg
<b>Inhalation</b>		
LC50	Rat	4000 ppm, 4 hr
<b>Oral</b>		
LD50	Rat	3500 mg/kg
Xylene (CAS 1330-20-7)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 4350 mg/kg
<b>Inhalation</b>		
LC50	Rat	29.08 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	3500 mg/kg
<b>Routes of exposure</b>	Inhalation. Skin contact. Eye contact.	
<b>Toxicological information</b>	Occupational exposure to the substance or mixture may cause adverse effects.	
<b>Acute toxicity</b>		
<b>Skin corrosion/irritation</b>	Causes skin irritation (Xylene)	
<b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation. Causes serious eyes irritation(Xylene)(Ethylbenzene)	
<b>Irritation Corrosion - Eye</b>		
Xylene		Category2
Ethylbenzene		Category2A
<b>Respiratory sensitiser</b>	Not available.	
<b>Skin sensitisation</b>	Due to partial or complete lack of data the classification is not possible. Skin sensitization: 0.1% or more and less than 1% of substance of skin sensibility 1B is included.	
<b>Mutagenicity</b>	Not available.	
<b>Germ cell mutagenicity: Ames test</b>		
LUMIFLON LF200C		OECD471, Negative
Ethylbenzene		Result: Negative
Xylene		Result: Negative
<b>Germ cell mutagenicity: Chromosome aberration</b>		
Ethylbenzene		Result: Negative
Xylene		Result: Negative
<b>Germ Cell Mutagenicity: In Vitro Mammalian Cell Gene Mutation Tests</b>		
Ethylbenzene		Result: There are both negative and positive reports.
Xylene		Result: There are both negative and positive reports.
<b>Germ Cell Mutagenicity: Micronucleus</b>		
Ethylbenzene		Result: Negative
Xylene		Result: Negative
<b>Carcinogenicity</b>	Risk of cancer cannot be excluded with prolonged exposure.	
Ethylbenzene		Category2
<b>ACGIH Carcinogens</b>		
Ethylbenzene (CAS 100-41-4)		A3 Confirmed animal carcinogen with unknown relevance to humans.
Xylene (CAS 1330-20-7)		A4 Not classifiable as a human carcinogen.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
Ethylbenzene (CAS 100-41-4)		2B Possibly carcinogenic to humans.
Xylene (CAS 1330-20-7)		3 Not classifiable as to carcinogenicity to humans.
<b>Reproductive toxicity</b>	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. May damage fertility or the unborn child.	

<b>Reproductivity</b>		
Ethylbenzene		Category1B
Xylene		Category1B
<b>Specific target organ toxicity - single exposure</b>	May cause respiratory irritation. May cause drowsiness or dizziness.	
Xylene		Cat.1(Central nervous system,Respiratory,Liver,Kidney), Cat.3(Narcrotic
Ethylbenzene		Cat.3 (Respiratory irritation, Narcotic effect)
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.	
Xylene		Cat.1 ( Nervous system,Respiratory organs )
Ethylbenzene		Category2(Hearing organs)
<b>Aspiration hazard</b>	Not applicable.	
Xylene		Category1
<b>Chronic effects</b>	Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated exposure. Prolonged exposure may cause chronic effects.	
<b>Teratogenicity</b>	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.	
<b>Symptoms</b>	May cause drowsiness or dizziness. Narcosis. Headache. Nausea, vomiting. Behavioural changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. Oedema. Jaundice.	

## 12. Ecological information

### Ecotoxicological data

Components	Species	Test Results
Ethylbenzene (CAS 100-41-4)		
<b>Aquatic</b>		
<i>Acute</i>		
Crustacea	EC50	Water flea (Daphnia magna) 1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Atlantic silverside (Menidia menidia) 4.4 - 5.7 mg/l, 96 hours
Xylene (CAS 1330-20-7)		
<b>Aquatic</b>		
<i>Acute</i>		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss) 3.3 mg/l, 96 hours
<b>Ecotoxicity</b>	Toxic to aquatic life with long lasting effects. In case of leakage, disposal etc., there is a risk of influencing the environment, so handle with care. Especially when products and washing water. Take measures not to flow directly to the ground, river or drainage.	
<b>Environmental effects</b>	Toxic to aquatic life with long lasting effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.	
<b>Persistence and degradability</b>	Easily biodegraded. (Xylene)	
<b>Bioaccumulation</b>		
<b>Bioaccumulative potential</b>		
<b>Octanol/water partition coefficient log Kow</b>		
Ethylbenzene		3.15
<b>Aquatic toxicity</b>	Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.	
<b>Mobility</b>	Not available.	
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

### 13. Disposal considerations

<b>Disposal methods</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.  Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.  Waste generated by wastewater treatment, incineration, etc. shall be processed or consigned according to Waste Management and Public Cleansing Act. and the related laws. Do not flush wastewater cleaned in containers, equipment, etc. to the ground or drain.  When incinerating, harmful gases may be generated, so incinerate in an equipment that can handle exhaust gas. Since waste generates hydrogen chloride and hydrogen fluoride when incinerated, it is incinerated in an incinerator equipped with neutralization facility and the incinerated residue is land filled in legally right place. Do not incinerate in the case of exceeding fluorine emission standards.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). The remaining products (residual waste) should be discarded according to the law concerning waste disposal and cleaning and the prefectural / municipal regulations.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport information

#### ADR

<b>UN number</b>	1866
<b>UN proper shipping name</b>	RESIN SOLUTION, flammable
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	3
<b>Hazard No. (ADR)</b>	30
<b>Tunnel restriction code</b>	D/E
<b>Packing group</b>	III
<b>Environmental hazards</b>	No.
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

#### RID

<b>UN number</b>	1866
<b>UN proper shipping name</b>	RESIN SOLUTION, flammable
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	3
<b>Packing group</b>	III
<b>Environmental hazards</b>	No.
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

#### IATA

<b>UN number</b>	1866
<b>UN proper shipping name</b>	Resin solution flammable
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	No.
<b>ERG Code</b>	3L
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed with restrictions.
<b>Cargo aircraft only</b>	Allowed with restrictions.

#### IMDG

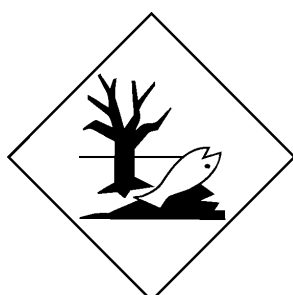
<b>UN number</b>	1866
<b>UN proper shipping name</b>	RESIN SOLUTION flammable, MARINE POLLUTANT
<b>Transport hazard class(es)</b>	
<b>Class</b>	3



**Subsidiary risk** -  
**Packing group** III  
**Environmental hazards**  
**Marine pollutant** Yes  
**EmS** F-E, S-E  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.  
**Transport in bulk according to IMO instruments** Not established.  
**ADR; IATA; IMDG; RID**



**Marine pollutant**



**General information**

IMDG Regulated Marine Pollutant.

In case of falling under the Fire Service Law, Occupational Safety and Health Law, Poisonous and Deleterious Substances Control Law, follow the transportation method prescribed by each applicable law.

To comply with the provisions of the ship safety law. Follow the aviation laws.

When transporting, keep the container at 40 ° C or below, taking care not to fall over, fall, or damage.

## 15. Regulatory information

**Regulatory information**

Ensure this materials in compliance with federal requirements and ensure conformity to local regulation.

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information

### Disclaimer

AGC Inc. Chemicals Company Coating Business Group

SDS is a document for business operators. Not all materials and literature have been investigated, so there may be information leaks. In addition, the content will change due to the announcement of new knowledge and correction of the existing theory. When used for important decisions, it is recommended to examine the sources carefully and to confirm by examination. No guarantee is made for the data or evaluation described. In addition, the items described are intended for normal handling. Therefore, when handling specially, be sure to implement safety measures suitable for new applications and usages before handling. Attach this SDS when transferring this product.

This product is an industrial product, it is not the thing which developed / manufactured assuming the medical use.