



## Safety Data Sheet (SDS)

Reference Number KM-01R  
 Creation Date Jul. 24, 1995  
 Revision Date Apr. 22, 2020

### 1. Identification

<b>Product name</b>	KIMICA ALGIN
<b>Product code</b>	01
<b>Manufacture's name</b>	KIMICA Corporation
<b>Address</b>	2-4-1, Yaesu, Chuo-ku, Tokyo, 104-0028 Japan
<b>Telephone number</b>	81-3-3548-1941 (KIMICA - Head Office)
<b>Fax number</b>	81-3-3548-1942
<b>E-mail</b>	<a href="mailto:tokyo-office@kimica.jp">tokyo-office@kimica.jp</a>
<b>Emergency telephone number</b>	81-439-87-1131 (KIMICA - Chiba Plant)
<b>Recommended use and Limit in the use</b>	Thickener, Stabilizer, Gelling agent and etc. in Food, Pharmaceutical, Cosmetics and other industries.

### 2. Hazard identification

<b>GHS classification</b>	
<b>Physical and chemical hazards</b>	Not applicable
<b>Health hazards</b>	Not applicable
<b>Environmental hazards</b>	Not applicable
<b>Label Element</b>	
<b>Pictogram or symbol</b>	None
<b>Signal word</b>	None
<b>Hazard statement</b>	None
<b>Precautionary statement</b>	
<b>Safety measure</b>	Wash hands thoroughly after handling the product
<b>First aid measures</b>	In case of skin contact, wash with running water or shower and soap. If in eyes, rinse carefully with water for several minutes. If skin irritation, rash or eye irritation persists, seek medical advice and attention
<b>Storage</b>	Keep container tightly closed and store in a cool, well-ventilated place.
<b>Disposal</b>	Outsource the contents and containers to a specialized waste disposal contractor licensed by the prefectural governor.




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### 3. Composition/information on ingredients

<b>Substance/Mixture distinction</b>	Substance
<b>Chemical name or general name</b>	Sodium Alginate
<b>Another name</b>	None
<b>CAS No.</b>	9005-38-3
<b>Reference Number in Gazetted List in Japan(Chemical Substances Control Law)</b>	8-237
<b>Reference Number in Gazetted List in Japan(Industrial Safety and Health Act)</b>	11-(4)-21

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### 4. First -aid measures

<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you cough violently or have difficulty breathing, get medical advice immediately while giving oxygen.
<b>Skin contact</b>	Rinse with running water or shower and soap. If skin irritation or rash occurs, seek medical advice and attention.
<b>Eye contact</b>	Rinse with water for a few minutes. Then remove contact lenses, if present and easy to do. Continue cleaning thereafter. If eye irritation persists, seek medical advice and attention.
<b>Ingestion</b>	Rinse your mouth. Don't force yourself to vomit. If you feel unwell, seek medical advice and attention.
<b>Most important symptoms and effects, both acute and delayed</b>	None
<b>Personal protective equipment (PPE) for first-aid responders</b>	See section 8.
<b>Special precautions for doctors</b>	None
<b>Other</b>	Change contaminated clothing.

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### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Use water, foam or dry chemical powder.
<b>Banned extinguishing media</b>	Data not available
<b>Specific hazard</b>	None
<b>Specific extinguishing method</b>	Cut off source of combustion and extinguish with extinguishing media. Be careful not to splash the product with high pressure water. Contaminated fire-fighting wastewater should not be discharged into rivers without treatment.
<b>Protection for firefighters</b>	Wear fire-resistant clothing, gloves and mask. Stand upwind to avoid inhaling scattered dust and gases decomposed by burning, and evacuate from low places.

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## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Wear protective equipment with sufficient ventilation to prevent exposure.
<b>Environmental precautions</b>	Be careful not to allow this product to drain into drains.
<b>Methods and materials for containment and cleaning up</b>	Sweep with a broom or collect with a vacuum cleaner while paying attention to the scattering of dust. This product swells when it absorbs water, and it becomes viscous. If it has absorbed water on the floor, wash it away with a large amount of water and remove it neatly.

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## 7. Handling and storage

<b>Handling</b>	
<b>Engineering controls</b>	Handle in a well-ventilated place. Take the equipment measures and wear protective equipment described in "8. Exposure controls/personal protection" .
<b>Precautions for safe handling</b>	Handle the container (craft bag + plastic bag) carefully so as not to damage it. Avoid getting wet and rough handling, and avoid scattering powder. Avoid contact with skin, eyes and clothing, and swallowing.
<b>Contact avoidance materials</b>	Avoid contact with water, moisture and hot bodies.
<b>Advice on general occupational hygiene</b>	When handling this product, wear protective equipment and pay attention to foreign matter contamination.
<b>Storage</b>	
<b>Technical measures</b>	Storage areas should be clean to prevent product contamination.
<b>Incompatible materials</b>	None
<b>Storage conditions</b>	Avoid moisture and store in a cool, dark place.
<b>Containers and Packaging</b>	Craft bag + plastic bag

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## 8. Exposure controls/personal protection

<b>Standard control concentration</b>	No settings
<b>Allowable concentration</b>	
<b>Japan Society for Occupational Health</b>	No settings
<b>ACGIH</b>	No settings
<b>Equipment measures</b>	Prevent scattering of fine powder by dust collector.
<b>Protective equipments</b>	
<b>respiratory protective equipment</b>	Dust mask
<b>Hand protection equipment</b>	Chemical resistant gloves
<b>Eye protection equipment</b>	Safety glasses
<b>Skin and body protection equipment</b>	Chemical resistant protective clothing

## 9. Physical and chemical properties

<b>Appearance (physical state, shape, colour, etc.)</b>	White to yellowish white fibrous powder
<b>Odour</b>	Odorless
<b>Odor threshold</b>	No data
<b>pH</b>	6.0-8.0 (1% solution)
<b>Melting point/Freezing point</b>	None
<b>Boiling point or initial boiling point and boiling range</b>	None
<b>Flash point</b>	None * In the flash point measurement according to JIS K 2265-2 (rapid equilibrium sealing method), there is no flash point because the seed flame disappears around 240°C due to the generated nonflammable gas.
<b>Evaporation rate</b>	No data
<b>Flammability (solid, gas)</b>	No data
<b>Lower and upper explosion limit /flammability limit</b>	No data
<b>Vapor pressure</b>	No data
<b>Vapor density</b>	No data
<b>Density(relative density)</b>	No data
<b>Solubility</b>	Soluble in water, insoluble in organic solvents
<b>Partition coefficient n-octanol / water</b>	No data
<b>Auto-ignition temperature</b>	No data
<b>Decomposition temperature</b>	No data

## 10. Stability and reactivity

<b>Chemical stability</b>	Stable under normal handling conditions (indoor, normal temperature)
<b>Possibility of hazardous reactions</b>	None
<b>Conditions to avoid</b>	Storage under high temperature
<b>Incompatible materials</b>	None
<b>Hazardous decomposition products</b>	None

## 11. Toxicological information

<b>Acute toxicity</b>	LD <sub>50</sub> Oral-Rat	> 5,000mg/kg
	LD <sub>50</sub> Intravenous-Rat	1,000mg/kg
	LD <sub>50</sub> Intravenous-Mouse	< 200mg/kg
	LD <sub>50</sub> Intravenous-Rabbit	100mg/kg
	LD <sub>50</sub> Intraperitoneal-Cat	250mg/kg
<b>Skin corrosion/irritation</b>	No data available	
<b>Serious eye damage/eye irritation</b>	No data available	
<b>Respiratory or skin sensitization</b>	No data available	
<b>Germ cell mutagenicity</b>	Reverse mutation test, Chromosomal aberration test: Negative	



<b>Carcinogenicity</b>	Mice were dosed 25%(1.75g/kg body weight/day) of Sodium alginate in the diet for 89 weeks, but no evidence of carcinogenicity were found.
<b>Reproductive toxicity</b>	After two generations of rats were fed 5%(1.0g/kg body weight/day) of Sodium alginate, no abnormalities in growth rate or fertility were observed.
<b>Specific target organ toxicity - single exposure</b>	Healthy adults ingested 8 g/day for 7 days without adverse reactions.
<b>Specific target organ toxicity - repeated exposure</b>	Healthy men received a dose of 175 mg/kg body weight per day for 7 days, followed by a dose of 200 mg/kg body weight per day for 16 days, followed by a 7-day recovery period, and various tests were performed. There are no significant changes in haematology, blood chemistry, or urinalysis parameters.
<b>Aspiration hazard</b>	No data available
<b>Other Information</b>	
<b>    Repeated dose toxicity</b>	Rats were fed 5%(1.0g/kg body weight/day) of Sodium alginate in the diet for 128 weeks, but there were no toxic effects on survival, body weight, food and water consumption, and no abnormalities were observed on necropsy. Dogs were dosed 15%(6.0g/kg body weight/day) of Sodium alginate in the diet for 1 year, but no treatment-related effects were observed.

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## 12. Ecological information

<b>Ecotoxicity</b>	No data available
<b>Persistence and degradability</b>	It is easily degraded by microorganisms in the environment.
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Adverse effects to the ozone layer</b>	Not classified because it does not contain ozone-depleting substances listed in the Annex of the Montreal Protocol.

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## 13. Disposal considerations

<b>Residual waste</b>	Dispose of by a contractor with a license for industrial waste treatment. Dispose of properly according to national and local laws.
<b>Contaminated containers and packaging</b>	Containers should be cleaned and recycled or disposed of properly according to national and local regulations. When disposing of empty containers, completely remove the contents.




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## 14. Transport information

### International regulations

Maritime regulatory information	Non-dangerous goods
Aviation regulation information	Non-dangerous goods
UN number	Not applicable
Product name (UN proper shipping name)	Not applicable
Transport hazard class	Not applicable
Packing group	Not applicable
Marine pollutants	Not applicable

### Domestic regulations

Land regulation information	Non-dangerous goods
Maritime regulatory information	Non-dangerous goods
Aviation regulation information	Non-dangerous goods

### Special safety measures

Avoid loading the bag in direct sunlight and avoiding damage, corrosion or leakage of the paper bag. Ensure that cargo collapse is prevented.  
See also "7. Handling and storage".

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## 15. Regulatory information

### (1) Act on Confirmation, etc. of Release

Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof ( Law concerning Pollutant Release and Transfer Register / PRTR Law)	Not applicable
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(2) Occupational Safety and Health Act Not applicable

(3) Poisonous and Deleterious Substances Control Act Not applicable

(4) Explosives Control Act Not applicable

(5) High Pressure Gas Safety Act Not applicable

(6) Fire Service Act Not applicable

(7) Chemical Substances Control Law Not applicable

(8) Ship Safety Act Not applicable

(9) Water Pollution Prevention Act Not applicable

(10) Food Sanitation Act The provisions on food additives apply.

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## 16. Other information

E No.	E401
EINECS No.	Not assigned
TSCA Inventory Status	Active

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