

## Safety Data Sheet (SDS)

Reference Number KM-015NH-D  
Creation Date Apr. 26, 2011  
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### 1. Identification

<b>Product name</b>	KIMICA ALGIN
<b>Product code</b>	015
<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</b>	Thickener, Stabilizer, Gelling agent and etc. in Food, Pharmaceutical, Cosmetics and other industries.
<b>Limit in the use</b>	None

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### 2. Hazard identification

#### GHS classification

##### Physical and chemical hazards

<b>Explosives</b>	Classification not possible
<b>Flammable gases</b>	Out of classification
<b>Aerosols</b>	Out of classification
<b>Oxidizing gases</b>	Out of classification
<b>Gases under pressure</b>	Out of classification
<b>Flammable liquids</b>	Out of classification
<b>Flammable solids</b>	Not classified
<b>Self-reactive substances</b>	Classification not possible
<b>Pyrophoric liquids</b>	Out of classification
<b>Pyrophoric solids</b>	Not classified
<b>Self-heating substances</b>	Not classified
<b>Substances which, in contact with water, emit flammable gases</b>	Not classified
<b>Oxidizing liquids</b>	Out of classification
<b>Oxidizing solids</b>	Classification not possible
<b>Organic peroxides</b>	Classification not possible
<b>Corrosive to metals</b>	Classification not possible

##### Health hazards

<b>Acute toxicity-oral</b>	Classification not possible
<b>Acute toxicity-dermal</b>	Classification not possible
<b>Skin corrosion/irritation</b>	Classification not possible
<b>Serious eye damage</b>	Classification not possible
<b>Eye irritation</b>	Classification not possible
<b>Respiratory sensitization</b>	Classification not possible
<b>Skin sensitization</b>	Classification not possible
<b>Germ cell mutagenicity</b>	Not classified
<b>Carcinogenicity</b>	Not classified

<b>Reproductive toxicity</b>	Not classified
<b>Specific target organ toxicity -single exposure</b>	Not classified
<b>Specific target organ toxicity -repeated exposure</b>	Not classified
<b>Aspiration hazard</b>	Classification not possible
<b>Environmental hazards</b>	
<b>Hazard to the aquatic environment(acute)</b>	Classification not possible
<b>Hazard to the aquatic environment(chronic)</b>	Classification not possible
<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>	Ammonium Alginate
<b>Another name</b>	None
<b>CAS No.</b>	9005-34-9
<b>Reference Number in Gazetted List in Japan(Chemical Substances Control Law)</b>	None
<b>Reference Number in Gazetted List in Japan(Industrial Safety and Health Act)</b>	11-(4)-494

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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.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Use water, foam or dry chemical powder.
<b>Banned extinguishing media</b>	No data available
<b>Specific hazard</b>	No data available
<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.

## 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.

## 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>Safe Storage conditions</b>	Avoid moisture and store in a cool, dark place. Storage areas should be clean to prevent product contamination.
<b>Safe Containers and Packaging</b>	Sealable containers without damage or getting wet

## 8. Exposure controls/personal protection

<b>Standard control concentration</b>	
<b>Allowable concentration</b>	No settings

Japan Society for Occupational Health	No settings
ACGIH	No settings
Equipment measures	Install as closed equipment and local exhaust as possible
Protective equipments	
Respiratory protective equipment	Dust mask
Hand protection equipment	Chemical resistant gloves
Eye protection equipment	Safety glasses
Skin and body protection equipment	Chemical resistant protective clothing

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## 9. Physical and chemical properties

Physical state	Solid
Colour	White to yellowish brown
Odour	Has a slightly peculiar smell
Melting point/Freezing point	No data available
Boiling point or initial boiling point and boiling range	No data available
Flammability (solid, gas)	No data available
Lower and upper explosion limit /flammability limit	Not applicable because of solid
Flash point	Not applicable because of solid
Auto-ignition temperature	Not applicable because of solid
Decomposition temperature	Not applicable because of neither self-reactive substances, organic peroxides, nor decomposable substances
pH	6.0-8.0 (1% solution)
Dynamic viscosity	Not applicable because of solid
Solubility	Soluble in water, insoluble in organic solvents
Partition coefficient n-octanol / water	No data available
Vapor pressure	No data available
Density(relative density)	No data available
Vapor density	Not applicable because of solid
Particle characteristics	No data available

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## 10. Stability and reactivity

Reactivity	Not reactive under normal handling conditions (indoor, normal temperature)
Chemical stability	Stable under normal handling conditions (indoor, normal temperature)
Possibility of hazardous reactions	No data available
Conditions to avoid	Storage under high temperature
Incompatible materials	None
Hazardous decomposition products	None

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## 11. Toxicological information

Acute toxicity	No data available
Skin corrosion/irritation/ Skin sensitization	No data available
Serious eye damage/eye irritation	No data available
Respiratory sensitization	No data available

<b>Germ cell mutagenicity</b>	It has been reported that in a reversion mutation test using bacteria (TA1535, TA1537, TA1538) and yeast (D4), it was negative with or without metabolic activation. The European Food Safety Authority (EFSA) has re-evaluated that there are no concerns about genotoxicity and does not require an acceptable daily intake (ADI).
<b>Carcinogenicity</b>	The European Food Safety Authority (EFSA) has provided a re-evaluation opinion that no adverse effects were reported at the maximum dose tested in the carcinogenicity study, and that it does not require an acceptable daily intake (ADI).
<b>Reproductive toxicity</b>	The European Food Safety Authority (EFSA) has re-evaluated that there are no concerns about genotoxicity and does not require an acceptable daily intake (ADI).
<b>Specific target organ toxicity - single exposure</b>	The European Food Safety Authority (EFSA) has re-evaluated that there are no concerns about short-term toxicity and does not require an acceptable daily intake (ADI).
<b>Specific target organ toxicity - repeated exposure</b>	The European Food Safety Authority (EFSA) has stated that it does not fall into the category because it has provided a re-evaluated opinion that there is no concern about genotoxicity and that it does not require an acceptable daily intake (ADI).
<b>Aspiration hazard</b>	No data available

## 12. Ecological information

<b>Ecotoxicity</b>	
<b>Hazard to the aquatic environment (acute)</b>	Classification not possible due to no data available
<b>Hazard to the aquatic environment (chronic)</b>	Classification not possible due to 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.

## 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.

## 14. Transport information

<b>UN number</b>	
<b>UN number</b>	Not applicable
<b>Product name (UN proper shipping name)</b>	Not applicable
<b>Transport hazard class</b>	Not applicable
<b>Packing group</b>	Not applicable
<b>Marine pollutants</b>	Not applicable

<b>Liquid substances transported in bulk according to MAROL 73/78 Annex II and IBC Code</b>	Not applicable
<b>International regulations</b>	
<b>Maritime regulatory information</b>	Non-dangerous goods
<b>Aviation regulation information</b>	Non-dangerous goods
<b>Domestic regulations</b>	
<b>Land regulation information</b>	Non-dangerous goods
<b>Maritime regulatory information</b>	Non-dangerous goods
<b>Aviation regulation information</b>	Non-dangerous goods
<b>Special safety measures for transportation or means of transportation</b>	Not applicable
<b>Other (general) attention</b>	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".

## 15. Regulatory information

<b>(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)</b>	Not applicable
<b>(2) Occupational Safety and Health Act</b>	Not applicable
<b>(3) Poisonous and Deleterious Substances Control Act</b>	Not applicable
<b>(4) Explosives Control Act</b>	Not applicable
<b>(5) High Pressure Gas Safety Act</b>	Not applicable
<b>(6) Fire Service Act</b>	Not applicable
<b>(7) Chemical Substances Control Law</b>	Not applicable
<b>(8) Ship Safety Act</b>	Not applicable
<b>(9) Water Pollution Prevention Act</b>	Cabinet Order, Article 2, Item 26 (Ammonia, ammonium compounds, nitrite compounds and nitrate compounds)
<b>(10) Food Sanitation Act</b>	The provisions on food additives apply.

## 16. Other information

<b>E No.</b>	E403
<b>EINECS No.</b>	Not assigned
<b>TSCA Inventory Status</b>	Active

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