

Safety Data Sheet (SDS)

Reference Number KM-02L
 Creation Date Aug. 12, 1999
 Revision Date Apr. 22, 2020

1. Identification

Product name	KIMILOID
Product code	02
Manufacture's name	KIMICA Corporation
Address	2-4-1, Yaesu, Chuo-ku, Tokyo, 104-0028 Japan
Telephone number	81-3-3548-1941 (KIMICA - Head Office)
Fax number	81-3-3548-1942
E-mail	tokyo-office@kimica.jp
Emergency telephone number	81-439-87-1131 (KIMICA - Chiba Plant)
Recommended use and Limit in the use	Thickener, Stabilizer, Gelling agent and etc. in Food, Pharmaceutical, Cosmetics and other industries.

2. Hazard identification

GHS classification	
Physical and chemical hazards	Not applicable
Health hazards	Not applicable
Environmental hazards	Not applicable
Label Element	
Pictogram or symbol	None
Signal word	None
Hazard statement	None
Precautionary statement	
Safety measure	Wash hands thoroughly after handling the product
First aid measures	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
Storage	Keep container tightly closed and store in a cool, well-ventilated place.
Disposal	Outsource the contents and containers to a specialized waste disposal contractor licensed by the prefectural governor.

3. Composition/information on ingredients

Substance/Mixture distinction	Substance
Chemical name or general name	Propylene Glycol Alginate
Another name	None
CAS No.	9005-37-2
Reference Number in Gazetted List in Japan(Chemical Substances Control Law)	8-247
Reference Number in Gazetted List in Japan(Industrial Safety and Health Act)	None

4. First -aid measures

Inhalation	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.
Skin contact	Rinse with running water or shower and soap. If skin irritation or rash occurs, seek medical advice and attention.
Eye contact	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.
Ingestion	Rinse your mouth. Don't force yourself to vomit. If you feel unwell, seek medical advice and attention.
Most important symptoms and effects, both acute and delayed	None
Personal protective equipment (PPE) for first-aid responders	See section 8.
Special precautions for doctors	None
Other	Change contaminated clothing.

5. Fire-fighting measures

Suitable extinguishing media	Use water, foam or dry chemical powder.
Banned extinguishing media	Data not available
Specific hazard	None



Specific extinguishing method	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.
Protection for firefighters	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

Personal precautions, protective equipment and emergency procedures	Wear protective equipment with sufficient ventilation to prevent exposure.
Environmental precautions	Be careful not to allow this product to drain into drains.
Methods and materials for containment and cleaning up	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

Handling	
Engineering controls	Handle in a well-ventilated place. Take the equipment measures and wear protective equipment described in "8. Exposure controls/personal protection" .
Precautions for safe handling	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.
Contact avoidance materials	Avoid contact with water, moisture and hot bodies.
Advice on general occupational hygiene	When handling this product, wear protective equipment and pay attention to foreign matter contamination.
Storage	
Technical measures	Storage areas should be clean to prevent product contamination.
Incompatible materials	None
Storage conditions	Avoid moisture and store in a cool, dark place.
Containers and Packaging	Craft bag + plastic bag

8. Exposure controls/personal protection

Standard control concentration	No settings
Allowable concentration	
Japan Society for Occupational Health	No settings
ACGIH	No settings
Equipment measures	Prevent scattering of fine powder by dust collector.
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

9. Physical and chemical properties

Appearance (physical state, shape, colour, etc.)	White to yellowish white fibrous powder
Odour	Practically odorless
Odor threshold	No data
pH	3.0-5.0 (1% solution)
Melting point/Freezing point	None
Boiling point or initial boiling point and boiling range	None
Flash point	122°C * According to JIS K 2265-2 Flash point measurement (rapid equilibrium sealing method). 126°C * According to JIS K 2265-4 Combustion point measurement (cleveland open method).
Evaporation rate	No data
Flammability (solid, gas)	No data
Lower and upper explosion limit /flammability limit	No data
Vapor pressure	No data
Vapor density	No data
Density(relative density)	No data
Solubility	Soluble in water, insoluble in organic solvents
Partition coefficient n-octanol / water	No data
Auto-ignition temperature	430°C * According to ASTM E659 Standard Test Method for Autoignition Temperature of Liquid Chemicals.



Decomposition temperature	No data
Lower explosion limit	80~85g/m ³ * According to JIS Z 8818 Lower explosive limit concentration measurement method for combustible dust (blowing dust explosion test equipment).
Minimum ignition energy	30~100mJ
Maximum explosion index	No data
Dust explosion class	No data
Maximum explosion pressure	7.2 x 10 ² kPa/s * According to JIS Z 8817 Measurement method of explosive pressure and pressure rise rate of combustible dust (spherical dust explosion test equipment).

10. Stability and reactivity

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

11. Toxicological information

Acute toxicity	LD ₅₀ Oral-Rat	7,200mg/kg
	LD ₅₀ Oral-Mouse	7,800mg/kg
	LD ₅₀ Oral-Rabbit	7,600mg/kg
	LD ₅₀ Oral-Hamster	7,000mg/kg
Skin corrosion/irritation	No data available	
Serious eye damage/eye irritation	No data available	
Respiratory or skin sensitization	No data available	
Germ cell mutagenicity	Reverse mutation test, Chromosomal aberration test, Dominant lethal test: Negative	
Carcinogenicity	No data available	
Reproductive toxicity	Two generations of rats were fed 5%(1.0g/kg body weight/day) of Propylene glycol alginate, but there was no difference in performance, mortality, mean body weight, conception, pregnancy, and F1 and F2 lactation and survival. No abnormalities were found in F2 hematology and macroscopic and pathological examinations of major organs.	



Oral administration of 170mg/kg body weight/day of Propylene glycol alginate to mice on days 6-15 of pregnancy did not affect pregnancy, maternal and fetal survival rates, and did not affect fetal visceral or skeletal findings.

Oral administration of 800 mg/kg body weight/day of Propylene glycol arginate was given to rabbits 6 to 18 days of pregnancy, but the test showed no effect.

Oral administration of 720mg/kg body weight/day of Propylene glycol arginate to rats on gestational days 6 to 15 showed no effect on the administration of both maternal animals and fetuses.

Oral administration of 700 mg/kg body weight/day of Propylene glycol arginate to hamsters between gestation days 6 and 10 showed no toxic effects on maternal animals and no effects on fertility. There was no effect of treatment on fetal examination.

Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available

12. Ecological information

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

13. Disposal considerations

Residual waste	Dispose of by a contractor with a license for industrial waste treatment.
Contaminated containers and packaging	Dispose of properly according to national and local laws. 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

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".

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

(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.

16. Other information

E No. E405

EINECS No. Not assigned

TSCA Inventory Status Active

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