

Safety Data Sheet (SDS)

Reference Number KM-02O
Creation Date Aug. 12, 1999
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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	Thickener, Stabilizer, Gelling agent and etc. in Food, Pharmaceutical, Cosmetics and other industries.
Limit in the use	None

2. Hazard identification

GHS classification

Physical and chemical hazards

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

Health hazards

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

Reproductive toxicity	Classification not possible
Specific target organ toxicity -single exposure	Classification not possible
Specific target organ toxicity -repeated exposure	Classification not possible
Aspiration hazard	Classification not possible
Environmental hazards	
Hazard to the aquatic environment(acute)	Classification not possible
Hazard to the aquatic environment(chronic)	Classification not possible
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	No data available
Specific hazard	No data available
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	
Safe Storage conditions	Avoid moisture and store in a cool, dark place. Storage areas should be clean to prevent product contamination.
Safe Containers and Packaging	Sealable containers without damage or getting wet

8. Exposure controls/personal protection

Standard control concentration	
Allowable concentration	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

9. Physical and chemical properties

Physical state	Solid
Colour	White to yellowish white
Odour	Practically odorless
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 explosion limit	80~85 g/m ³ * According to JIS Z 8818 Lower explosive limit concentration measurement method for combustible dust (blowing dust explosion test equipment).
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).
Minimum ignition energy	30~100 mJ
Upper explosion limit /flammability limit	Not applicable because of solid
Flash point	122 °C * According to JIS K 2265-2 Determination of flash point – Rapid equilibrium closed cup method.
Fire point	126 °C * According to JIS K 2265-4 Determination of fire point – Cleveland open cup method.
Auto-ignition temperature	430 °C * According to ASTM E659 Standard Test Method for Autoignition Temperature of Liquid Chemicals.
Decomposition temperature	Not applicable because of neither self-reactive substances, organic peroxides, nor decomposable substances
pH	3.0-5.0 (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

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

11. Toxicological information

Acute toxicity (Oral)	LD ₅₀ Oral-Rat	7,200 mg/kg
	LD ₅₀ Oral-Mouse	7,800 mg/kg
	LD ₅₀ Oral-Rabbit	7,600 mg/kg
	LD ₅₀ Oral-Hamster	7,000 mg/kg
Acute toxicity (Dermal)	No data available	
Skin corrosion/irritation/ Skin sensitization	Rabbits receiving an application of propylene glycol alginate as an aqueous paste on abraded skin did not reveal signs of irritation.	
Serious eye damage/eye irritation	Rabbits receiving an ocular application of dry powdered propylene glycol alginate did not reveal signs of irritation.	
Respiratory sensitization	No data available	
Germ cell mutagenicity	Reverse mutation test using bacteria strains <i>Salmonella typhimurium</i> (TA92,TA94,TA98,TA100,TA1535,TA1537): Negative, Chromosomal aberration test (CHL cells,cultured human lung cells, rat bone marrow cells): Negative, Dominant lethal test: Negative	
Carcinogenicity	Ten rats, male and female, in each group were fed 1.6 to 12.5 g / kg propylene glycol alginate for up to 2 years, but no abnormalities suggestive of carcinogenicity were observed by macroscopic or microscopic examination of major organ tissues. Forty rats were fed 2.5 g / kg for up to 2 years, but microscopic examination of major tissues showed no evidence of carcinogenicity. 10 mice per group were fed a diet (12-56 g / kg) for 1 year, but no effect was observed on major organs by macroscopic or microscopic examination.	

Reproductive toxicity

Two generations of rats were fed 5 % (1.0 g/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 170 mg/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 720 mg/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

Hazard to the aquatic environment (acute)

Classification not possible due to no data available

Hazard to the aquatic environment (chronic)

Classification not possible due to 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.

Dispose of properly according to national and local laws.

Contaminated containers and packaging

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

UN number

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

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.