

SAFETY DATA SHEET (SDS)



CAS No. : 25085-02-3
Issued on : Jan. 28, 2004
Revision Date : May. 15. 2023

1 . CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Group Name : **SUMIFLOC FN-20H**
Group Products : **FA-30, FA-40, FA-40H, FA-40B, FA-41HC, FA-50, FA-50H, FA-70, FN-15H (Applicable)**
Product Description : **Anionic polyacrylamide**
Molecular Formula : **Polymer**
MSDS Group Code : **SF01**
Recommended Uses And Restrictions: Flocculant, Processing aid, for industrial uses
MT AquaPolymer, Inc., Ueno Bldg., 3rd Floor, 2-6-2, Kajicho, Chiyoda-ku, Tokyo, 101-0044, JAPAN
Information Telephone : (Overseas Dept.) +81-3-6206-4508, (FAX) +81-3-3251-5080
Emergency Telephone : +81-3-6206-4509

SDS / Safety Data Sheet

SDS No. : A1-0[SF01-00E6]3515

2. HAZARDS IDENTIFICATION

[GHS CLASSIFICATION]

[Physical Hazards]

Explosives	[Not classification]
Flammable gases	[Not classification]
Flammable aerosols	[Not classification]
Oxidizing gases	[Not classification]
Gases under pressure	[Not classification]
Flammable liquids	[Not classification]
Flammable solids	[Not classification]
Self-reactive substances and mixtures	[Not classification]
Pyrophoric liquids	[Not classification]
Pyrophoric solids	[Not classification]
Self-heating substances and mixtures	[Not classification]
Substances and mixtures, which in contact with water, emit flammable gases	[Not classification]
Oxidizing liquids	[Not classification]
Oxidizing solids	[Not classification]
Organic peroxides	[Not classification]
Corrosive to metals	[Classification not possible]
Desensitized explosives	[Not classification]

[Health Hazards]

Acute toxicity (oral)	[Not classification]
Acute toxicity (dermal)	[Classification not possible]
Acute toxicity (inhalation: gas)	[Not classification]
Acute toxicity (inhalation: vapour)	[Not classification]
Acute toxicity (inhalation: dust, mist)	[Classification not possible]
Skin corrosion / irritation	[Not classification]
Serious eye damage / eye irritation	[Classification not possible]
Respiratory sensitizer	[Classification not possible]
Skin sensitizer	[Classification not possible]
Germ cell mutagenicity	[Classification not possible]
Carcinogenicity	[Classification not possible]
Toxic to reproduction	[Classification not possible]
Specific target organs/systemic toxicity following single exposure	[Classification not possible]
Specific target organs/systemic toxicity following repeated exposure	[Classification not possible]
Aspiration hazard	[Classification not possible]

[Environmental Hazards]

Hazardous to the Aquatic Environment (Acute toxicity)	[Not classification]
Hazardous to the Aquatic Environment (chronic toxicity)	[Not classification]

[LABEL Element]

Pictogram : No Pictogram
Signal Word : No Signal word

Hazard statement :
No Hazard statement

Precautionary Statement :

No Precautionary statement

【Other Precautional information】

- Aqueous solutions and powders that become wet render surfaces extremely slippery
- Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
- Wear protective gloves/clothing and eye/face protection.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Formula	: Polymer	
Chemical Family	: Anionic polyacrylamide	
Chemical Formula	: $(\text{CH}_2\text{CHCONH}_2)_n(\text{CH}_2\text{CHCOONa})_m$	
Components [CAS. No.]		% (w/w)
Acrylamide, sodium acrylate copolymer	[25085-02-3]	> 90%
Water	[7732-18-5]	< 10%

Hazardous Ingredients / Regulated Components [CAS. No.]	% (w/w)
--	----------------

Component Information/Information on Non-Hazardous Components:

This product contains the following chemicals as an impurity ingredient,

Chemical Name: Acrylamide [CAS.No. 79-06-1], percent in composition is <0.1 % by weight. [Exposure Limits]: 0.1mg/m³(JAIH), TLV-TWA: 0.03mg/m³(ACGIH), PEL TWA: 0.3mg/m³(OSHA), [Carcinogenicity]: IARC Group 2A, ACGIH A3.

Other components not listed here are not hazardous or their concentrations are the regulatory threshold limits.

4. FIRST-AID MEASURES

Ingestion:

Low toxicity product. No hazards which require special first aid measures. If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Eye Contact:

May cause some irritation. Rinse immediately with plenty of water for at least 15 minutes. Insufficient washing may cause eye irritation. Obtain medical attention immediately.

Skin Contact:

May cause slight irritation, especially with repeated or prolonged exposure. Take off immediately all

contaminated clothing. Immediately wash the contaminated area thoroughly with plenty of water and soap. Insufficient washing may cause skin irritation. Obtain medical attention if necessary.

Inhalation:

May cause some irritation to the respiratory system if dust is inhaled. Remove affected person to fresh air. In case of vomit, keep respiratory tract clear. If there is difficulty in breathing, take measure of oxygen inhalation or artificial respiration.

5. FIRE-FIGHTING MEASURES

Extinguishing Method:

Cut off the origin of the fire immediately, and extinguish the fire with extinguishing media. Arresting the spread of fire, keep surroundings cool by spraying with water. Wear self-contained breathing apparatus to avoid inhale of nitrogenous compounds, carbon monoxide and carbon dioxide liberated in a fire situation.

Extinguishing Media:

Use water spray, foam, powder, carbon dioxide or dry chemical.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wear impervious boots. Scoop up spilled dry material and place in an appropriate container for disposal or re-use. Sweep up dust and remaining material. Use an appropriate vacuum (with filter to avoid dispersing respirable dust into air) to remove powder residue. Once wet, remaining powder will cause surface to become extremely slippery and pose a hazard similar to ice. Clean up personnel should take precautions when rinsing the surface with water.

Methods For Cleaning Up:

7. HANDLING AND STORAGE

Handling:

As with many organic powders flammable dust clouds may be formed. Avoid creating dust and keep away from sources of ignition. Do not breathe dust. Wear protective glasses and gloves. Do not eat, drink or smoke whilst handling the product. Remove contaminated clothing immediately and launder before reuse. Gargle, wash hands and face thoroughly after handling. Spills should be scooped up or wiped up immediately, and the spill area flushed with water.

Storage:

To avoid product degradation and equipment corrosion, do not use iron, copper or aluminum containers or equipment. Avoid wet, damp and humid conditions. Keep in a dry, cool place. Avoid extremes of temperature.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters:

Engineering Controls : No value have been established

Exposure Limits:

JAIH : No value have been established

ACGIH : No value have been established

JAIH: Japan Association on Industrial Health, ACGIH: American Conference of Governmental Industrial Hygienists

Respiratory Protection:

Engineering controls are not usually necessary if good hygiene practices are followed. Use with adequate ventilation and wear a nuisance dust mask for dusty conditions.

Personal Protective Equipment:

Wear protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted. Wash thoroughly after handling.

Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Off white granular solid
Odor	: Odorless
Specific Gravity	: 0.6-0.8(Bulk density)
Melting Point	: Not available (Decomposition at $\geq 200^{\circ}\text{C}$)
Solubility In Water	: Limited by viscosity
pH	: 5 - 8(0.1% solution)
Flash Point	: Not applicable
Ignition Point	: Not available
Explosion Limit	: Not applicable

10. STABILITY AND REACTIVITY

Stability:

Stable under normal handling conditions.

Reactivity:

Stable under normal handling conditions.

11. TOXICOLOGICAL INFORMATION

Substance / reparation Toxicity Classification

Acute Toxicity:

Classification: Not classification.

(Oral) Acute Oral, LD50 >2000mg/kg (rat)

As LD50 value is in excess of the Category 4 upper limit (LD50 ≥ 2000 mg/kg), the category of this product is Not classification in accordance with Japanese classification standard [JIS Z 7252(2009): Classification of chemicals based on GHS].

(Dermal) No toxicity data available

(Inhalation) No toxicity data available

Mutagenicity: Negative (Ames Test). Classification not possible as gel cell mutagenicity.

Carcinogenicity: No data available. Classification not possible.

Toxic to reproduction: No data available. Classification not possible.

Specific target organs / systemic toxicity: No data available. Classification not possible.

Aspiration hazard: No data available. Classification not possible.

Skin Corrosion / Irritation: Not classification as irritating to the skin. Non-irritating to slightly irritating to skin.

Serious Eye Damage / Irritation: Classification not possible as irritating to the eyes. According to the Draize test results of a structurally similar product, it is conceivable that this product is slightly irritating. May result in moderate mechanical irritation by palpable powder or granular forms. Dust may cause stinging eyes.

Respiratory Sensitization / Skin Sensitization: No sensitizing effects known. Classification not possible. Large quantity of dust inhalation may cause irritation to lung.

Other Toxicity Information:

Based on knowledge of the properties of the components, adverse effects on human health are not to be expected in normal use.

12. ECOLOGICAL INFORMATION

Aquatic Environmental (Acute toxicity): Classification: Not classification, since acute toxicity LC50 was >100mg/L.

Toxic to aquatic organisms, may cause adverse effect in the aquatic environment. This product is due to high polymer structure, it is not readily biodegradable. All ecological information provided was conducted on a structurally similar product.

And it was reported that product dose not bioaccumulate to aquatic organisms.

Aquatic Environmental (Chronic toxicity): Classification: Not classification, since acute toxicity LC50 was >100mg/L. And dose not bioaccumulate.

Biodegradation : < 10%/28days (OECD 301D, Closed Bottle test), 7.9%/28days (BOD test)

Ecological Toxicity

Fish Test Results LC₅₀ : Acute toxicity, 270mg/L/96hr (Species: Oryzias latipes, Method: freshwater, JIS K0102)

Acute toxicity, TLm 2500mg/L/48hr (Species: Oryzias latipes, Method: seawater, JIS K0102)

13. DISPOSAL CONSIDERATIONS

Disposal must be arranged in accordance with local, state and federal regulations. If disposal is necessary, care must be taken to prevent environmental contamination from the disposal of material, residues and containers. Disposal must be disposed of by thermal treatment or incineration at approved facilities. In such case, the waste should be disposed at temperature higher than 800°C.

Waste Number & Descriptions:

None listed. Unadulterated product is considered non-hazardous.

14. TRANSPORT INFORMATION

International Shipping Information

IMO/IMDG

Shipping Name : Not applicable / Not regulated
Hazard Class : Not applicable
Subsidiary Class : Not applicable
UN Number : Not applicable
Packing Group : Not applicable
Transport Label Required : None required

ICAO/IATA

Shipping Name : Not applicable / Not regulated
Hazard Class : Not applicable
Subsidiary Class : Not applicable
Un Number : Not applicable
Packing Group : Not applicable
Transport Label Required : None required

Additional Transportation Information:

15. REGULATORY INFORMATION

Inventory Information

- JAPAN** : All components of this product are included on the Japanese inventory (ENCS).
MITI number is (6)-883.
Fire Service Law(Japan) :
Not applicable
Industrial Safety and Health Law(Japan) (ISHL):
Present (6)-883 (ENCS inventory number, considered an existing substance based on the Industrial Safety and Health Law)
Pollutant Release and Transfer Register Law(Japan) (PRTR) :
Not applicable
Poisonous and Deleterious Substances Control Law(Japan) :
Not applicable
Regulations for the Carriage and Storage of Dangerous Goods in Ship(Japan):
Not applicable
Act on Prevention of Marine Pollution and Maritime Disaster(Japan) (PPJ):
Not applicable
Other Environmental Information(Japan):
- UNITED STATES** : Section 8(b) Inventory (TSCA)
Present [XU].
- CANADA** : Domestic Substances List (DSL)
Present.
- EUROPEAN UNION (EU)** : REACH (1907/2006) - List of Pre-registered Substances
May 31, 2013
- AUSTRALIA** : Australia - Inventory of Chemical Substances (AICS)
Present
- CHINA** : Inventory - China - Inventory of Existing Chemical Substances (IECSC)
Present [04671]
- KOREA** : Korea - Existing Chemicals Inventory (KECI/KECL) - Annex 1
Present [KE-29719]
- PHILIPPINES** : Philippines - Inventory of Chemicals and Chemical Substances (PICCS)
Present.

Other Environmental Information :

16. OTHER INFORMATION

The information in this Material Safety Data Sheet associates only to the specific material designated herein and does not apply to uses in combination with any other materials or for any other processes. The information given is based on our toxicological analyzed data and those publications available which are believed to be reliable. It is subject to change or update without notice. Because conditions of applications vary and are beyond our control, it is users' responsibility to obtain safety data for combinations with other materials, or for applications in other processes. Always follow local safety regulations applicable on erection sites.

Reason for issue:

This data sheet is prepared in accordance to JIS Z 7252:2019 and JIS Z 7253:2019 (JIS: Japanese Industrial Standards).

This information is given without any warranty or representation. We do not assume any legal responsibility for same, nor do we give permission, inducement, or recommendation to practice any invention without a license. It is offered solely for your consideration, investigation and verification. Before using any product read its label.
