

Kyowa Chemical Industry Co., Ltd.
SAFETY DATA SHEETS

DHT-4A™

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE SUPPLIER

Product Name : DHT-4A™

Manufacturer

Company Name : Kyowa Chemical Industry Co., Ltd.
Address : 4035 Hayashida-cho, Sakaide, Kagawa, 762-0012, Japan
Telephone Number : +81-(0) 877-47-0011

Emergency telephone number

Kyowa Chemical Industry Co., Ltd.
Telephone No. +81-(0) 877-47-4704 (Quality Assurance Dept.)
Facsimile No. +81-(0) 877-47-4724

2. HAZARDS IDENTIFICATION

GHS Classification

Physicochemical Hazards

Explosives	:	Out of classification
Flammable gases	:	Out of classification
Flammable aerosol	:	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 substance and mixtures	:	Out of classification
Pyrophoric liquids	:	Out of classification
Pyrophoric solids	:	Not classified
Self-heating substance and mixtures	:	Not classified
Substance and mixtures which, in contact with water, emits flammable gases	:	Not classified
Oxidizing liquids	:	Out of classification
Oxidizing solids	:	Not classified
Organic peroxides	:	Out of classification
Corrosive to metals	:	Not classified

Kyowa Chemical Industry Co., Ltd.
SAFETY DATA SHEETS

DHT-4A™

Health hazards

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Classification not possible
Acute toxicity (gases)	:	Out of classification
Acute toxicity (vapor)	:	Classification not possible
Acute toxicity (dust and mists)	:	Classification not possible
Skin corrosion / irritation	:	Classification not possible
Serious eye damage / eye irritation	:	Classification not possible
Respiratory or skin sensitization	:	Classification not possible
Germ cell mutagenicity	:	Classification not possible
Carcinogenicity	:	Classification not possible
Reproductive toxicity	:	Classification not possible
Specific target organ systemic toxicity (single exposure)	:	Classification not possible
Specific target organ systemic toxicity (repeated exposure)	:	Classification not possible
Aspiration hazard	:	Classification not possible

Environmental hazards

Hazardous to the aquatic environment (acute)	:	Classification not possible
Hazardous to the aquatic environment (chronic)	:	Classification not possible
Hazardous to the Ozone Layer	:	Not classified

Labeling elements

: Nothing

Other hazard

Inhalation	:	May cause symptoms of mucus irritation, cough
Skin contact	:	Prolonged contact may cause skin irritation
Eye contact	:	May irritate mucus membranes
Ingestion	:	No symptoms occur at low dose levels but there may be nausea, vomiting at high dose levels

Kyowa Chemical Industry Co., Ltd.
SAFETY DATA SHEETS

DHT-4A™

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical name</u>	<u>Wt%</u>	<u>CAS registry #</u>
Magnesium Aluminum Hydroxide Carbonate Hydrate	≥ 95	11097-59-9
Stearic acid	≤ 5	57-11-4

Synonym(s) Hydrotalcite

EC No. 943-434-4

TSCA Registered

4. FIRST AID MEASURES

Inhalation	:	Removal of exposed individual from area to fresh air. Powder is discharged with phlegm or mucus.
Eye contact	:	Flash with clean water.
Skin contact	:	Wash with water or soapy water.
Ingestion	:	In case of large amount, drink large quantity of water and induce vomiting.
Note to physician	:	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammable properties : Non-flammable

6. ACCIDENTAL RELEASE MEASURES

Vacuuming or wet sweeping may be used to avoid dust dispersal.

Land spill	:	Sweep together and dispose according to the laws of your country.
Water spill	:	Collect together and dispose according to the laws of your country.

Kyowa Chemical Industry Co., Ltd.
SAFETY DATA SHEETS

DHT-4A™

7. HANDLING AND STORAGE

Handling : It is better to use glasses and gloves made of rubber.
Storage : This material should be stored in a dry place and the bag must be closed after use because of its hygroscopicity. Keep away from odorous substances or volatiles.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : No specific controls are needed.
Personal protective equipment
Eye / Face Protection : Glasses
Skin Protection : Working clothes (Nothing of particular protection)
Respiratory Protection : Mask
Exposure Guidelines : Not established

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : White powder
Odour : No information
Odour threshold : No information
pH : No information
Melting point : No information
Initial boiling point : No information
Flash point : No information
Evaporation rate : No information
Flammability : No information
Upper/lower flammability or explosive limits : No information
Vapour pressure : No information
Vapour density : No information
Relative density : 2.1
Solubility : Insoluble in water. Soluble in mineral acid.
Partition coefficient: n-octanol/water : No information
Auto-ignition temperature : No information
Decomposition temperature : No information
Viscosity : No information

Kyowa Chemical Industry Co., Ltd.
SAFETY DATA SHEETS

DHT-4A™

10. STABILITY AND REACTIVITY

Chemical stability	:	Stable under normal conditions
Conditions to avoid	:	Wet or high temperature
Hazardous decomposition products	:	Nothing
Hazardous reactions	:	Will not occur

11. TOXICOLOGICAL INFORMATION

Acute oral effects	:	LD ₅₀ = over 10,000 mg/kg by oral and hypodermic injection (mice) † over 8,200 mg/kg by intraperitoneal injection (mice)
Mutagenicity	:	Not available

(† Hydrotalcite; DEPARTMENT OF PHARMACOLOGY TOKYO MEDICAL COLLEGE 25,695(1967))

Inhalation	:	May cause symptoms of mucus irritation, cough
Eye contact	:	May irritate mucus membranes
Skin contact	:	Prolonged contact may cause skin irritation
Ingestion	:	No symptoms occur at low dose levels but there may be nausea, vomiting at high dose levels

12. ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial, where available)	:	Not available
Persistence and degradability	:	Not available
Bioaccumulative potential	:	Not available
Mobility in soil	:	Not available
Other adverse effects	:	Not available

13. DISPOSAL CONSIDERATIONS

Disposal	:	In accordance with the laws of your country.
----------	---	--

Kyowa Chemical Industry Co., Ltd.
SAFETY DATA SHEETS

DHT-4A™

14. TRANSPORT INFORMATION

NA : Not identified
UN No. : Not identified
ADR/RID : Not identified
IMO-IMDG code : Not identified
Hazard Label(s) : Unnecessary

15. REGULATORY INFORMATION

This material is classified as follows and labeled accordingly.

Symbol(s) : Nothing
R Phrase (s) : Nothing
S Phrase (s) : Nothing

REACH : EC 943-434-4 is included as “related substances” to CAS No. 11097-59-9 in the REACH registration.

Please refer to any other national measures that may be relevant.

16. OTHER INFORMATION

No specific notes.

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Kyowa Chemical Industry Co., Ltd. It relates only to the specific material designated herein, and does not relate to use in combination with any other material or in any process. Kyowa Chemical Industry Co., Ltd. assumes no legal responsibility for use of or reliance upon this information.