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First issue : October 16, 2000
Publication date : May 13, 2005

Kyowa Chemical Industry Co., Ltd.
MATERIAL SAFETY DATA SHEETS

DHT-4A-2

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : DHT-4A-2
Synonym(s) : Magnesium Aluminum Hydroxide Carbonate

MANUFACTURER

Company Name : Kyowa Chemical Industry Co., Ltd.
Address : 4035 Hayashida-cho, Sakaide, Kagawa, 762-0012, Japan
Telephone No. +81(0)877-47-0011

EMERGENCY TELEPHONE NUMBER

Kyowa Chemical Industry Co., Ltd.
Telephone No. +81-(0)877-47-2500 (Research & Development Dept.)
8:00 am – 4:30 pm Japan Time

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical name</u>	<u>Wt%</u>	<u>CAS registry #</u>
Magnesium Aluminum Hydroxide Carbonate	95~100	11097-59-9

3. HAZARDS IDENTIFICATION

RISK PHRASES : Not identified
MAIN HAZARD : Generally safe

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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.
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 : Noninflammable

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.

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. This material must be stored to avoid contact with oxidizers (such as perchlorates, peroxides, permanganates, chlorates and nitrates) and chlorine trifluoride since violent reactions occur.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS : No specific controls are needed.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection : Glasses
Skin Protection : Work clothes (Nothing of particular protection)
Respiratory Protection : Mask

EXPOSURE GUIDELINES : Not established

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state at 25°C : Solid
Appearance : Fine powder
Color : White
Odor : Odorless
Solubility in Water : Insoluble
Specific Gravity (H₂O-1) : 2.1
pH : 9.0±0.5 (1g / 50mL C₂H₅OH)
Initial boiling point (°C) : Decomposition around 430°C

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY : Stable
CONDITIONS TO AVOID : Wet or high temperature
HAZARDOUS DECOMPOSITION PRODUCTS : Nothing
HAZARDOUS REACTIONS : Will not occur

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11. TOXICOLOGICAL INFORMATION

ACUTE ORAL EFFECTS : LD₅₀= over 10,000 mg/kg (mice) †
MUTAGENICITY : Not available

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

12. ECOLOGICAL INFORMATION

ECOTOXICITY : Not available
ENVIRONMENTAL FATE : Not available
PHYSICAL/CHEMICAL : Not available

13. DISPOSAL CONSIDERATIONS

Disposal : In accordance with the laws of your country.

14. TRANSPORT INFORMATION

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

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15. REGULATORY INFORMATION

This material is classified as follows and labeled accordingly.

Symbol(s)	:	Nothing
R Phrase (s)	:	Nothing
S Phrase (s)	:	Nothing
CAS No.	:	11097-59-9
EINECS No.	:	2343193
TSCA	:	Registered
Water Hazardous Class (German WGK)	:	Non water polluting substance

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

16. OTHER INFORMATION

No specific notes.

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