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## METERIAL SAFETY DATA SHEET

# HYQM-DHT21-75E

### 1. Chemical Product and Company Identification

**Product Name:** Di(hydrogenated Tallow) Dimethyl Ammonium Chloride

**Product Code:** HYQMD-HT21, WETTING AGENT 75

**Supplier and Address:** Qida Chemical Co., Ltd.

3-2001, 158 Lushan Road, Nanjing, 210019, China

Tel: +86-25-8646-0031 Fax: +86-25-8646-2151

### 2. Composition, Information on Ingredients

This product is to be considered as a preparation according to EU-legislation.

Substance name	CAS number	Concentration	Symbols	Risk
Di(hydrogenated tallow)dimethyl ammoniumchloride	61789-80-8	~75 %	Xi ,N *	R-38, 41, 50/53
2-Propanol	67-63-0	~14 %	Xi ,F	R-11, 36, 67
Water	7732-18-5	~11 %	-	

**Other information** All components are registered in EINECS. \* Classification of the substance with respect to irritating effects can not be used for calculating according to the Directive 1999/45/EC, Annex II. For explanation of riskphrases, see section 16.

### 3. Hazards Identification

Flammable. Irritant. Dangerous for the environment.

Above the flash point an explosive mixture can be formed. Irritating to skin. Risk of serious damage to eyes.

### 4. First Aid Measures

**General** Get medical attention immediately.

**Inhalation** Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position.

Seek medical advice if symptoms appears.

**Skin** Remove contaminated clothing. Wash the skin with soap and water. Seek medical advice

if symptoms appears.

**Eyes** Immediately rinse with water for several minutes. Hold eyelids apart. Get medical



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attention

immediately. Continue to rinse during transport.

**Ingestion** Only when conscious, rinse mouth, give plenty of water to drink (approx. 500 ml). Obtain

medical attention.

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### **5. Fire Fighting Measures**

**Extinguishing media** Water spray, fog or mist, alcohol resistant foam, powder, carbon dioxide.

**Unsuitable extinguishing media** Waterjet, foam.

**Special fire fighting procedures** Treat as an oil fire. Water spray may be ineffective unless used by experienced fire fighters. Wear self contained breathing apparatus.

**Unusual fire hazards** Above the flash point an explosive mixture can be formed. If involved in a fire it will support combustion and may decompose to give off toxic materials. In case of fire and/or explosion do not breathe fumes.

**Hazardous combustion products** No typical hazardous decomposition products known.

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### **6. Accidental Release Measures**

**Personal precautions** For personal protection see Section 8.

**Environmental precautions** Should not be allowed to enter drains or water courses.

Dispose of this material and its container at hazardous or special waste collection point.

**Methods for cleaning up** Contain spill with inert material. Place in container for disposal according to local regulations. Cover the remainder with inert absorbent (e.g. vermiculite) for disposal. In case of large spillages contact the local authority.

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### **7. Handling and Storage**

**Handling** The usual precautions for flammable liquids should be observed. When using do not eat, drink or smoke. Avoid spilling, skin and eye contact. No sparking tools should be used.

**Storage** Keep away from heat, sparks and open flame. No smoking. To maintain quality: Store at

ambient temperatures. Avoid elevated temperatures. For further information see product information sheet.

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### **8. Exposure Controls, Personal Protection**

#### **Exposure limits**

**Ingredient name Exposure limit 8 hours Short term exposure References**

2-Propanol 400 ppm 500 ppm OEL's

**Comments** OELs = EH40/2002 Occupational Exposure Limits 2002.

**Engineering controls** Provide eyewash station. Provide shower facilities near the work place. Mechanical ventilation or local exhaust ventilation may be required.

#### **Personal protection**

**Hand** Use protective gloves made of: Nitrile.



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Eyes Wear tightly fitting safety goggles.

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### 9. Physical and Chemical Properties

**Appearance** Paste.

**Colour** Whitish.

**Odour** 2-Propanol.

**Boiling point/range (°C) Pressure 80 (kPa)**

**Melting point/range (°C)** 30 - 35

**Flash point (°C) 25 Method** Abel-Pensky DIN 51755

**Autoignition temperature (°C)** > 100

**Vapour pressure 170 hPa Temperature (°C)** 50

**Relative vapour density (air=1)** 2,1

**Density (kg/m<sup>3</sup>) 850 Temperature (°C)** 60

**Viscosity 70 mPas Temperature (°C)** 60

**pH value diluted solution 5 - 9 Conc. (%) \***

**Solubility in water** Dispersible.

**Solubility in other solvents** Soluble in 2-propanol.

**Other physical data \* 5%, 2-Propanol/water (1:1).**

(These data are typical for the product and not a specification)

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### 10. Stability and Reactivity

**Stability** Avoid elevated temperatures. Stable under recommended storage and handling conditions (see section 7).

#### **Hazardous decomposition products**

No typical hazardous decomposition products known.

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### 11. Toxicological Information

#### **Toxicological data**

##### **Health effects**

**Respiratory** The inhalation of aerosols may cause irritation of the respiratory tract.

Contains solvent. Emits vapours during heating. High concentrations may cause stupor, dizziness, nausea, vomiting.

**Skin** Irritating. May cause transient redness and pain.

**Eyes** May cause severe irritation. Risk of chemical burns.

**Ingestion** May cause irritation to mucous membranes in mouth, throat, stomach and intestinal canal.

#### **Component Di(hydrogenated tallow) dimethylammonium chloride**

##### **Toxicological data**

LD50. oral rat > 5000 mg/kg

NOEL 90 days oral rat 150 mg/kg/day

**Sensitization** Not sensitizing.

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## 12. Ecological information

### Ecotoxicological data

**Ecotoxicology** The product contains substance(s) considered very toxic to aquatic organisms.

**Degradation** The product is classified as not readily biodegradable.

### Di(hydrogenated tallow) dimethylammonium Component chloride

#### Ecotoxicological data

LC50 96 hours fish 1 mg/l Ref. Toxid 1888

EC50 48 hours Daphnia 0,35 mg/l Ref. Toxid 1876

IC50 72 hours algae 0,012 mg/l Ref. Toxid 1331

**Ecotoxicology** Very toxic to aquatic organisms.

**Degradation** Inherently biodegradable. <60% BOD, 28 days, Closed Bottle Test (OECD 301D).

Not readily biodegradable. The slow degradation in ready biodegradability test is attributed to the limited bioavailability. The substance is degraded rapidly when dissolved in water.

## 13. Disposal Considerations

**Disposal methods** Incineration is recommended. Dispose of in accordance with local authority requirements.

Nitrous gases may be formed by incineration.

**Waste category** Hazardous waste in accordance with the Council Directive 91/689/EEC of 12 December 1991 on hazardous waste.

## 14. Transport Information

**Proper shipping name** Solids containing flammable liquid, n.o.s. (Di(hydrogenated tallow)dimethyl ammonium chloride/2-Propanol mixture)

### Land transport

**UN number** 3175 **RID-class** 4.1

**ADR class** 4.1 **RID packing group** II

**ADR packing group** II

**Classification code** F1

**CEFIC number** 41DF1-II+III **Tremcard internal code** 4102

### Sea transport

**UN number** 3175

**IMDG class** 4.1 **EmS** F-A, S-I

**IMDG packing group** II **Marine pollutant** No.

### Air transport

**UN number** 3175 **Subsidiary risk** -

**IATA/ICAO class** 4.1 **Packing group** II

**Other information** Bulk tank. Class 3, Packing group: III UN 1993 TREM-Card: CEFIC TEC(R): 30GF1-III HI

30 Tremcard internal code: 503, Proper Shipping name: Flammable liquid n.o.s.



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(Di(hydrogenated tallow) dimethyl ammoniumchloride/2-propanol mixture)

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### **15. Regulatory Information**

**Substance name** Di(hydrogenated tallow) dimethylammonium chloride

**Substance name** 2-Propanol

**Risk phrases** R-10 Flammable.

R-38 Irritating to skin.

R-41 Risk of serious damage to eye.

R-50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases** S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S-28 After contact with skin, wash immediately with plenty of soap and water.

S-37/39 Wear suitable gloves and eye/face protection.

S-57 Use appropriate containment to avoid environmental contamination.

**EU directive** Safety Data Sheet according to EC-directive 2001/58/EC..

**Water hazard classification** WGK: 2 (Germany).

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### **16. Other Information**

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliate, make any representative or warranties (expressed or implied), nor assumes any liability including liability for any direct, incidental, consequential, or the damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specification material is used in combination with another, in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All material may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist.

**MSDS Date:** Mar 26<sup>th</sup>, 2010