



# SAFETY DATA SHEET

## HUNTEX DMC-KO2

Version 1.0  
Revision date: 24 / 7 / 2019  
Print Date: 24 / 7 / 2019

### 1. Identification of the substance/ mixture and of the company/ undertaking

#### 1.1. Product identifier

Trade name : HUNTEX DMC-KO2

Chemical Name : Mixture of surfactants.

#### 1.2. Recommended use of the chemical and restrictions on use

Recommended use Textile auxiliary.

Non-recommended : none known.

#### 1.3. Details of the supplier of the safety data sheet

Company : HUNG XUONG CHEMICAL CO., LTD.

Telephone : +84 272 377 8055/56

Telefax : +84 272 377 80

E-mail : info@hungxuong.com

#### 1.4. Emergency telephone number

Emergency : +84 272 377 8055

Information :

### 2. Hazards identification

#### 2.1. Classification of the substance or mixture

**GHS Classification and classification according to Regulation on classification and labeling of chemicals - Number 04/2012/TT-BCT.**

Acute toxicity-Oral : Category 5.

Skin corrosion/irritation : Category 2.

Serious eye damage/eye irritation: Category 1.

Aquatic Acute : Category 2.

Aquatic Chronic : Category 3.

#### 2.2. Label elements

##### GHS Label elements



Hazard pictograms :

Signal word : DANGER

Hazard statement :

H303- May be harmful if swallowed.

H315- Causes skin irritation.

H318- Causes serious eye damage.

H401- Toxic to aquatic life.

H412- Harmful to aquatic life with long-lasting effects

Precautionary statement:

Prevention :

P264- Wash hands thoroughly after handling.

P280- Wear protective gloves/protective clothing/eye protection/face protection.

P273- Avoid release to the environment.

Response :



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P312- Call a POISON CENTER or doctor/physician if you feel unwell.  
P302 + P352- If on skin. Wash with plenty of soap and water.  
P332 + P313- If skin irritation occurs. Get medical advice/ attention.  
  
P362 + P364 - Take off contaminated clothing and wash before reuse.

P305+P351+P338- IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310- Immediately call a POISON CENTER or doctor/physician.

Storage :  
No special measures required.

Disposal :  
P501- Disposal of contents / container in accordance with national regulations.

### 2.3. Other hazards

None known

## 3. Composition/information on ingredients

### 3.1. Substance

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### 3.2. Mixture

Information on ingredients / Hazardous components

Chemical Name	CAS-No	Concentration (%)	Classification GHS
Lauryl alcohol ethoxylate	9002-92-0	24	Acute Toxicity-Oral.4, H302. Skin Irrit.2, H315. Eye Dam.1, H318. Aquatic Acute.1, H400. Aquatic Chronic.3, H412 ( Refer to <a href="https://echa.europa.eu/registration-dossier/-/registered-dossier/10916/2/1">https://echa.europa.eu/registration-dossier/-/registered-dossier/10916/2/1</a> )
Polyoxyethylene styrenated aryl sulfate ammonium salt	119432-41-6	9	Eye Irrit.2, H319. Aquatic Chronic.3, H412 (Refer to: <a href="https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/75108">https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/75108</a> )



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Tristyrylphenol ethoxylates	70559-25-0	0.5	Aquatic Chronic.3, H412 (Refer to: <a href="https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/42472">https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/42472</a> )
Isopropyl alcohol	67-63-0	0.3	Flam.Liq. 2, H225 Eye Irrit. 2, H319 STOT-SE 3, H335 ( refer to <a href="https://echa.europa.eu/brief-profile/-/briefprofile/100.000.601">https://echa.europa.eu/brief-profile/-/briefprofile/100.000.601</a> )
Butyl carbitol (diethylene glycol monobutyl ether)	112-34-5	66	Eye Irrit. 2A, H319 ( <a href="https://echa.europa.eu/brief-profile/-/briefprofile/100.003.601">https://echa.europa.eu/brief-profile/-/briefprofile/100.003.601</a> )

#### 4. First aid measures

##### 4.1. Description of first aid measures

General advice : If medical advice is needed, provide SDS document to physician.  
Inhalation : Remove the victim from exposure or move to well- ventilated area.  
If there is difficulty in breathing, medical advice is required.  
Skin contact : After contact with skin, wash with plenty of soap and water.  
Remove contaminated clothing, shoes and leather accessories.  
Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persist –Get medical advice/ attention.  
Ingestion : In case of swallowing, rinse mouth with water, drink plenty of water. If feel unwell, seek medical advice.

##### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms : no special hints

##### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### 5. Fire-fighting measures

##### 5.1. Extinguishing media

Suitable extinguishing media : fine water spray, foam, dry powder, CO<sub>2</sub>

Unsuitable extinguishing media : no data available.

##### 5.2. Special hazards arising from the substance or mixture



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In the event of fire the following can be released: carbon monoxide, carbon dioxide.

**5.3. Advice for firefighters**

On burning will emit toxic fumes, fire fighter should wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapor or product of combustion.

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**6. Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid slippery, do not touch or walk through spilled material.

**6.2. Environmental precautions**

Take up and fill into a closable container. Prevent run off into drains and waterways.

**6.3. Methods and material for containment and cleaning up**

Take up liquid spill into absorbent material, eg: soil, sand and other non-flammable absorbent material.

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**7. Handling and storage**

**7.1. Precautions for safe handling**

Advice on safe handling : wear protective equipment, wear safety goggles when working.

Hygiene measures : Do not eat, drink or smoke when working. Wash hands before breaks and after work.

General protective measures : Do not inhale gases/ vapors/ aerosols. Avoid contact with eyes and skin.

**7.2. Condition for safe storage, including any incompatibilities**

**Prevention of fire and explosion**

Information : no special measures required.

**Storage**

Information : none

Further Information on storage conditions:

Keep container tightly closed and store in a cool, dry well- ventilated location. Store away from heat, flames, ignition sources and incompatibles. Avoid contact with strong acids, alkalis, oxidizing agents. Check regularly for leaks.

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**8. Exposure controls / Personal protection**

**8.1. Control parameters**

Exposure limit(s) :



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Ingredient	CAS-No	Statutory basis	Value type (From of exposure; Expressed as)	Occupational exposure limit
2-Propanol (Isopropanol)	67-63-0	(Decision.No.3733/2002/QD-BYT)	TWA	350 mg/m <sup>3</sup>
		(Decision.No.3733/2002/QD-BYT)	STEL	600 mg/m <sup>3</sup>

### 8.2. Exposure controls

Appropriate engineering controls : operate in well- ventilated area.

Personal protective equipment

Eye protection : wear safety goggles.

Hand protection : protective gloves.

Body protection : protective working clothes and safety shoes.

Respiratory protection : wear respirator

Hygiene measures : keep away from foodstuff. Always wash hands before eating, drinking, smoking. Wash contaminated clothing and other protective equipment before storage or re-use.

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state or appearance: liquid

Color : colorless .

Odor : characteristic

Odor Threshold : no data available.

pH of 1% liquid (25°C) : 5.5 - 7.5

Melting point : no data available.

Boiling point : no data available.

Flash point : > 95°C

Evaporation rate : no data available.

Flammability : no data available.

Upper Explosion/Ignition limit: no data available.

Lower explosion limit : no data available.

Vapour pressure : no data available.

Relative vapour : no data available.

Relative density : no data available.

Solubility : soluble in water.



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Partition coefficient (n-octanol/water)	: no data available.
Autoignition temperature	: no data available.
Thermal decomposition	: no data available.
Viscosity, kinematic	: no data available.
Viscosity, Dynamic	: 25-45 mPa*s (25°C)
Oxidizing properties	: no data available.
<b>9.2. Other Information</b>	
Density	: 0.99- 1.0 g/cm <sup>3</sup> .(25°C)
Metal corrosion	: no data available.

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## 10. Stability and reactivity

### 10.1. Reactivity

Stable in normal room temperature.

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Contact with aluminum or alloys containing aluminum may result in alcoholate formation with subsequent evolution of hydrogen.

### 10.4. Conditions to avoid

Heat, flames, ignition sources and incompatibles.

### 10.5. Incompatible materials

Avoid contact with strong acids, alkalis and oxidizing agents, aluminum and alloys of aluminum.

### 10.6. Hazardous decomposition products

Carbon dioxide and carbon monoxide may form when heated to decomposition.

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## 11. Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : May be harmful if swallowed.

Acute toxicity  
(inhalation) : not classified.

Acute toxicity (dermal) : not classified.

Irritation/corrosion  
of the skin : Causes skin irritation.

Serious eye damage/  
eye irritation : Causes serious eye damage.

Repeated dose toxicity : not classified.

#### CMR assessment

Carcinogenicity : not classified.

Mutagenicity : not classified.



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Teratogenicity : not classified.  
Toxicity to reproduction: not classified.  
Specific Target Organ : not classified.  
Toxicity-single exposure  
Specific Target Organ : not classified.  
Toxicity-Repeated exposure  
Aspiration hazard : not classified.

### 12. Ecological information

#### 12.1. Ecotoxicity

Toxic to aquatic life.

#### 12.2. Persistence and degradability

Biodegradability : .14%

Biochemical oxygen demand (BOD5): 1340 mg/g.

Chemical oxygen demand (COD): 9936 mg/g.

#### 12.3. Bioaccumulative potential

No data available.

#### 12.4. Mobility in soil

No data available.

#### 12.5. Other adverse effects

No data available.

### 13. Disposal considerations

#### 13.1 Waste treatment methods

Waste from residue: Disposal should be in accordance with local regulations and legislation.

Contaminated packaging: Dispose of empty contaminated containers in accordance with regulations and legislation.

### 14. Transport information

Not classified as dangerous goods for transport

#### D.O.T Road/Rail

UN number : not applicable.

UN Proper Shipping Name: not applicable.

Transport hazard class(es): not applicable.

Packing group : not applicable.

Environmental hazards ( Marine pollutant): not applicable.

Transport in bulk : not applicable.

Special precaution for user: not applicable.

#### Air transport ICAO-TI/IATA-DGR

UN number : not applicable.

UN proper shipping name: not applicable.

Transport hazard class(es): not applicable.

Packing group : not applicable.

Environmental hazards : not applicable.



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Transport in bulk : not applicable.  
Special precaution for user: not applicable.  
**Sea transport IMDG**  
UN number : not applicable.  
UN proper shipping name: not applicable.  
Transport hazard class(es): not applicable.  
Packing group : not applicable.  
Environmental hazards ( Marine pollutant): not applicable.  
Transport in bulk : not applicable.  
Special precaution for user: not applicable.

### 15. Regulatory information

#### 15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture.

- Regulation on classification and labeling of chemicals - Number :04/2012/TT-BCT - Date issued :13/02/2012
- Regulations on the list of hazardous industrial goods to be packed in the process of transporting and transporting dangerous industrial goods by road, rail and inland waterway transport - number: 44/2012/TT-BCT - Date issued 28/12/2012
- National technical standard for ambient air quality - QCVN05:2013/BTNMT
- National technical regulation on some hazardous substances in the surrounding air QCVN06:2009/BTNMT
- Decision, No.3733/2002/QĐ-BYT.

### 16. Other information

The information in the sheet were written based on the best knowledge and experience currently available but without liability.

SDS prepared on: July 24, 2018

Revision date : July 24, 2019

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Legend

TWA: Time Weighted Average.

STEL: Short term exposure limit.

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods

Acute Toxicity-Oral.4: Acute toxicity oral, hazard category 4

Skin Irrit.2: Skin irritation, hazard category 2

Eye Dam.1: eye damage, hazard category 1.

Aquatic Acute.1: Aquatic acute, hazard category 1

Aquatic Chronic.2: Aquatic chronic, hazard category 2

Aquatic Chronic.3: Aquatic chronic, hazard category 3





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H302- Harmful if swallowed.  
H303- May be harmful if swallowed.  
H318- Causes serious eye damage.  
H400- Very toxic to aquatic life.  
H401- Toxic to aquatic life.  
H410- Very toxic to aquatic life with long-lasting effects.  
H411- Toxic to aquatic life with long-lasting effects.  
H412- Harmful to aquatic life with long-lasting effects.