

# Safety Data Sheet (SDS) Report

Sample Description:

The sample information was submitted and identified on applicant's behalf to be:

Product Name : 1,8-Naphthalic Anhydride

Application Received : July 04, 2018

Application Reviewed : July 15, 2018

### Service Requested:

As requested by the applicant, the Safety Data Sheet (SDS) was generated by the submitted information in accordance with Regulation (EC) No. 1907/2006, Regulation (EC) No 1272/2008, EU Commission Directive 67/548/EEC, 1999/45/EC, for details please refer to attached pages.

Authorized By:
Qingdao Kaimosi Biochemical Technology Co.,Ltd

Tel: +(86) 571 87191975

Issue Date: 2018-07-15

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1. Product identifier

Trade name:	1,8-Naphthalic Anhydride	
Proper shipping name:	None	
Other identities:	No data available	

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

### 1.2.1. Relevant identified uses

Intermediate for pigments, dyestuffs, agricultural, pesticides, resin and film.

### 1.2.2. Uses advised against

Advise against other uses.

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

Supplier:	Qingdao Kaimosi Biochemical Technology Co.,Ltd
Address:	808 Block B, Suning Life Plaza, No.1 Shu Yuan Road, Licang District, Qingdao
Telephone:	+(86) 571 87191975
Fax:	+(86) 571 87191975
E-mail:	Sales@kaimosi.com

Only representative company name:	REACH Only Representative Services GMBH
Address:	Paul-Gerhardt-Straß e 1, D-52072, Aachen
Telephone:	+49 711 27311-170
Fax:	+49 711 27311-559
E-mail:	Wilhelm.Pfleger@intertek.com

# 1.4. Emergency telephone number

Country	Advisory body	Address	Emergency number

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Not classified.

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified.

Other adverse physicochemical, human health and environmental effects

No reliable data available.

### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictogram: None

Signal word:	None
Hazard statements:	EUH208: Contains Maleic anhydride that is classified as Skin Sensitisation Category 1 and Respiratory Sensitisation
	Category 1. May produce an allergic reaction.
Precautionary statements:	None

### 2.3. Other hazards

No reliable data available.

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# **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Name	CAS No.	EC No.	Index No.	REACH No.	% wt/wt	Classification according to CLP	Classification according to DSD
1,8-Naphthalic Anhydride	81-84-5	201-380-2	-	01- 21195933 69-21-× ×××	99.2	Not classified	Not classified
Water	7732-18-5	231-791-2	-	-	0.5	Not classified	Not classified
Acenaphthenequi none	82-86-0	201-441-3	-	-	0.1	Skin Irritation Category 2, H315; Eye Irritation Category 2, H319; Specific Target Organ Toxicity Category 3, H335	Xi; R36/37/38
Acenaphthylene	208-96-8	205-917-1	-	-	0.1	Acute Toxicity Category 4, H302; Skin Irritation Category 2, H315; Eye Irritation Category 2, H319; Specific Target Organ Toxicity Category 3, H335	Xn; R22 Xi; R36/37/38
Maleic anhydride	108-31-6	203-571-6	607-096- 00-9	-	0.1	Acute Toxicity Category 4, H302; Skin Corrosive Category 1B, H314; Respiratory Sensitisation Category 1, H334; Skin Sensitisation Category 1, H317	Xn; R22 C; R34 R42/43

# 3.2. Mixtures

Not applicable.

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. Get medical attention.

**Skin contact:** Immediately wash with plenty of soap and water. Get medical attention if irritation occurs.

Eye contact: Immediately flush eyes with running water for at least 20 minutes holding eyelids open. Get medical attention.

**Ingestion:** Do not induce vomiting. Give 1-2 glasses of water to a conscious victim. Never give anything by mouth to an unconscious victim. Get medical attention.

Notes to physician: Symptomatic treatment.

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

May produce an allergic reaction.

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

No reliable data available.

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Foam.

Dry chemical powder.

Carbon dioxide.

Water spray or fog - large fires only.

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# 5.2. Special hazards arising from the substance or mixture

Fire/explosion hazard: Emits toxic fumes under fire conditions.

Main combustion gas: Carbon monoxide, carbon dioxide gases.

### 5.3. Advice for firefighters

Alert Fire Brigade and tell them location and nature of hazard.

Wear breathing apparatus plus protective gloves.

Prevent, by any means available, spillage from entering drains or water courses.

Use water delivered as a fine spray to control fire and cool adjacent area.

DO NOT approach containers suspected to be hot.

Cool fire exposed containers with water spray from a protected location.

Only when safe to do so, remove containers from path of fire.

### **SECTION 6: Accidental release measures**

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

### 6.1.1. For non-emergency personnel

Wear suitable protective equipment.

### 6.1.2. For emergency responders

Remove ignition sources and provision of sufficient ventilation, evacuate the danger area and consult experts.

### 6.2. Environmental precautions

Take precautions to prevent entry into waterways, sewers, or surface drainage systems. Dispose according to local or international regulations.

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

Use appropriate tools to put the spilled solid in suitable container for recovery or disposal, avoid raising dust.

### 6.4. Reference to other sections

Refer to Section 8 for Personal Protective Equipment advice.

### SECTION 7: Handling and storage

# 7.1. Precautions for safe handling

Avoid ingestion, inhalation, skin and eye contact. Minimize dust generation and accumulation. Handle in accordance with good industrial hygiene practice and any legal requirements.

### 7.2. Conditions for safe storage, including any incompatibilities

Suitable container: PP/PE. Check all containers are clearly labelled and free from leaks.

Storage incompatibility: Avoid reaction with strong acid, alkali and oxidizing agents.

### 7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

At this time no TLV of this mixture has been established, even though this material may produce adverse health effects (as evidenced in animal experiments or clinical experience). Airborne concentrations must be maintained as low as practically possible and occupational exposure must be kept to a minimum.

Substance	Maleic anhydride			
CAS No.				
	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m³	ppm	mg/m³
Australia	0,25	1		
Austria	0,1	0,41	0,2	0,8
Belgium	0,1	0,41		
Canada - Ontario	0,1			
Canada - Québec	0,25	1,0		
Denmark	0,1	0,4	0,2	0,8
France				1

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0,1	0,41	0,1 (1)	0,41 (1)
0,1	0,41	0,1 (1)(2)	0,41
	0,4		0,4
	1		
0,25	1		
	0,5		1
0,25	1,0		
0,1	0,4		
0,1	0,4		
0,05	0,2	0,1 (1)	0,4 (1)
0,1	0,4	0,1	0,4
0,25	1		
0,25	1		
	1		3
Remarks			
nany (AGS) (1) 15 minutes average value (2) Ceiling limit value			
(1) STV 15 minutes average value (2) A momentary value of 0,2 ml/m³ (0,81 mg/m³) should not be exceeded.			
sen			
(1) Ceiling limit value	(1) Ceiling limit value		
	0,1  0,25  0,25  0,1  0,1  0,05  0,1  0,25  0,25  0,25  (1) 15 minutes average value (1) STV 15 minutes average sen	0,1 0,41 0,4 0,4 1 0,25 1 0,5 0,5 0,25 1,0 0,1 0,1 0,4 0,1 0,1 0,4 0,05 0,2 0,1 0,1 0,4 0,25 1 0,25 1 1 0,25 1 0,2	0,1 0,41 0,1 (1)(2)  0,4  1 0,25 1 0,5  0,25 1,0  0,1 0,4  0,1 0,4  0,1 0,4  0,1 0,4  0,1 0,4  0,1 0,4  0,1 0,1 0,4  0,1 0,1 0,4  1 0,1 0,1 0,4  1 0,25 1 1  1 0,25 1 1  1 0,25 1 1  1 15 minutes average value (2) Ceiling limit value  (1) STV 15 minutes average value (2) A momentary value of 0,2 ml/m³ (0,81 mg/m³) sen

#### 8.2. **Exposure controls**

Appropriate engineering controls: Process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

General Personal Protection: Safety goggles or face shield, protective chemical resistant gloves, protective clothing.

SECTION 9: Physical and chemical properties			
.1. Information on basic physical and chemical properties			
Physical state:	Solid		
Colour:	No data available		
Odour:	No data available		
pH:	No data available		
Melting point/freezing point:	No data available		
Boiling point:	No data available		
Flash point:	No data available		
Vapour pressure:	No data available		
Relative density:	No data available		
Water solubility:	No data available		
Partition coefficient (n-octanol/water):	No data available		
Auto-ignition temperature:	No data available		
Flammability:	No data available		
Upper/lower flammability limits:	No data available		
Upper/lower explosive limits:	No data available		
Explosive properties:	No data available		
Oxidising properties:	No data available		
Dissociation constants:	No data available		
Surface tension:	No data available		
Viscosity:	No data available		
9.2. Other information			

No data available.

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

May react with strong acid, alkali, oxidizing agents and incompatible materials.

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# 10.2. Chemical stability

Stable under normal condition.

### 10.3. Possibility of hazardous reactions

Hazardous reactions may occur if contact with incompatible material.

# 10.4. Conditions to avoid

High temperature, ignition sources (sparks, flames, static), incompatible materials.

# 10.5. Incompatible materials

Strong acid, alkali and oxidizing agents

# 10.6. Hazardous decomposition products

On combustion or thermal decomposition, may emit toxic fumes.

# SECTION 11: Toxicological information

11.1.	Information on to	oxicological effects	
Acute	toxicity:		

Acute toxicity:	Maleic anhydride
	LD50(Oral, Rat): 1090 mg/kg bw (OECD Guideline 401)
	LD50(Dermal, rabbit, female): 2620 mg/kg bw
Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory or skin sensitisation:	Respiratory sensitisation
	Maleic anhydride: sensitising
	skin sensitisation
	Maleic anhydride: sensitising (OECD Guideline 406)
Germ cell mutagenicity:	Maleic anhydride:
	Negative (OECD Guideline 471)
	Negative (OECD Guideline 475)
Carcinogenicity:	Maleic anhydride:
	NOEL(carcinogenicity) >= 100 other: mg/kg/day (OECD Guideline 451)
Reproductive toxicity:	Maleic anhydride:
	NOAEL (fertility, P/F1)= 55mg/kg/day (OECD Guideline 416)
	LOAEL (systemic, P/F1) = 20mg/kg/day (OECD Guideline 416)
	LOEL (local, P) = 20mg/kg/day (OECD Guideline 416)
STOT-single exposure:	No data available
STOT-repeated exposure:	Oral:
	Maleic anhydride: NOEL(female)= 100 mg/kg bw/day (nominal);
	NOEL(male)= 40 mg/kg bw/day (nominal);
	LOAEL(female)= 250 mg/kg bw/day (nominal);
	LOAEL(male)= 100 mg/kg bw/day (nominal)
	Inhalation:
	Maleic anhydride: LOAEC (local)= 0.01 mg/L air (nominal) (OECD Guideline 412)
	LOAEC (systemic)= 0.01 mg/L air (nominal) (OECD Guideline 412)
Aspiration hazard:	No data available

# **SECTION 12: Ecological information**

### 2.1. Aquatic toxicity

12.1. Aquatic toxicity	
Acute (short-term) toxicity:	No data available
Chronic (long-term) toxicity:	Maleic anhydride:
	Crustaceans (Daphnia Magna, 21d): EC50=77 mg/L; NOEC=10 mg/L

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2.2. Persistence and degradability	
Biodegradation:	No data available
Abiotic degradation:	No data available
12.3. Bioaccumulative potential	
Bioconcentration factor (BCF):	No data available
12.4. Mobility in soil	
Known or predicted distribution to environmental compartments:	No data available
Adsorption/Desorption:	No data available

# 2.5. Results of PBT and vPvB assessment

Maleic anhydride:

The substance is not PBT / vPvB

# 12.6. Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Product disposal: refer to specific national regulation.

Contaminated packaging: contaminated, empty containers must be disposed of as chemical waste.

# SECTION 14: Transport information

Based on available information, the product is not considered as dangerous goods and the UN recommendation on the transport of dangerous goods does not necessarily apply, however, it is highly recommended to get professional advice for appropriate transport.

Label required: None

# Land transport (ADR / RID / GGVSE)

None

14.1 UN number	None	14.4 Packing group	None	
14.2 UN proper shipping	None	14.5 Environmental hazards	None	
name			Hazard identification	None
			(Kemler)	
14.3 Transport hazard	None	14.6 Special precautions for	Classification Code	None
class(es)		user	Hazard Label	None
			Special provisions	None
			Add limited quantity	None

# Air transport (ICAO-IATA / DGR)

None

14.1 UN number	None	14.4 Packing group	None	
14.2 UN proper shipping	None	14.5 Environmental hazards	None	
name			Special provisions	None
14.3 Transport hazard	None		Cargo Only Packing	None
class(es)			Instructions	
			Cargo Only Maximum Qty	None
		14.6 Special precautions for	/ Pack	
		user	Passenger and Cargo	None
			Packing Instructions	
			Passenger and Cargo	None
			Maximum Qty / Pack	
			Passenger and Cargo	None

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			Limited Quantity Packing	
			Instructions	
			Passenger and Cargo	None
			Maximum Qty / Pack	
Sea transport (IMDG-Code	e / GGVSee)			I.
None				
14.1 UN number	None	14.4 Packing group	None	
14.2 UN proper shipping	None	14.5 Environmental hazards	None	
name			EMS number	None
		4400		
		14.6 Special precautions for	Special provisions	None
14.3 Transport hazard	None	user	Limited quantities	None
class(es)				
Inland waterways transpo	rt (ADNR / River Rhine)			I.
None				
14.1 UN number	None	14.4 Packing group	None	
14.2 UN proper shipping	None	14.5 Environmental hazards	None	
name			Classification code	None
14.3 Transport hazard	None	14.6 Special precautions for	Limited quantity	None
class(es)		user	Equipment required	None

# 14.7. Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC Code

No data available.

# **SECTION 15: Regulatory information**

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

# 15.1.1. EU-Regulations

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - 67/548/EEC, 1999/45/EC, Regulation (EC) No 1272/2008, Regulation (EC) No 1907/2006, 98/24/EC, 92/85/EEC, 94/33/EC, 91/689/EEC and 1999/13/EC.

# 15.1.2. International/national regulations

None

# 15.2. Chemical safety assessment

No chemical safety assessment report was provided for this safety data sheet compilation.

# SECTION 16: Other information

# 16.1 Indication of changes

Version No.	Change date	Change description
No data available	No data available	No data available

### 16.2 Key literature references and sources for data

- ESIS (European chemical Substances Information System), http://esis.jrc.ec.europa.eu/
- Information on Chemicals in ECHA website, http://echa.europa.eu/information-on-chemicals
- IFA GESTIS International limit values for chemical agents Occupational exposure limits (OELs), http://www.dguv.de/ifa/en/gestis/limit\_values/index.jsp

# 16.3 List of relevant hazard statements and risk phrases

H code	H315: Causes skin irritation.
n code	H319: Causes serious eye irritation.

Fire cones number

None

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	H335: May cause respiratory irritation.
	H302: Harmful if swallowed.
	H314: Causes severe skin burns and eye damage.
	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H317: May cause an allergic skin reaction.
	R36/37/38: Irritating to eyes, respiratory system and skin.
R phrase	R22: Harmful if swallowed.
	R34: Causes burns.
	R42/43: May cause sensitization by inhalation and skin contact.

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

The information presented in this SDS is based on our current knowledge and available data as of the issue date, and is only intended to describe the product for the purposes of protecting human health and environment from potential hazard. It should not therefore be construed as guaranteeing any specific property of the product.