TCI (Shanghai) DEVELOPMENT CO., LTD.

**Itaconic Anhydride** 

**Revision number: 1** 

Revision date: 11/30/2010

Page 1 of 4

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# SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product name: **Product code:** Company: Address: **Responsible Department:** Telephone: Fax: e-mail: **Revision number:** 

Itaconic Anhydride 10203 TCI (Shanghai) DEVELOPMENT CO., LTD. No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China Sales Department +86-(0)21-67121386 +86-(0)21-67121385 sales@tcishanghai.com.cn 1

2. HAZARDS IDENTIFICATION **Classification of the GHS PHYSICAL HAZARDS HEALTH HAZARDS** Skin corrosion/irritation Serious eye damage/eye irritation **ENVIRONMENTAL HAZARDS GHS** label elements Pictograms or hazard symbols



Signal word Hazard statement

**Precautionary statements** [Prevention]

[Response]

Not classified

Category 2 Category 2A Not classified

Warning Causes skin irritation Causes serious eye irritation

Wash hands thoroughly after handling. Wear protective gloves/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance/mixture:	Substance
Component(s):	Itaconic Anhydride
Percent:	>95.0%(T)
CAS Number:	2170-03-8
Synonyms:	3,4-Dihydro-3-methylene-2,5-furandione, Methylenesuccinic Anhydride
Chemical Formula:	$C_5H_4O_3$

## **4. FIRST AID MEASURES**

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

4. FIRST AID MEASURES	
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of
	soap and water. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present
	and easy to do. Continue rinsing. If eye irritation persists: Get medical
	advice/attention.
Ingestion:	Get medical advice/attention if you feel unwell. Rinse mouth.
Protection of first-aiders:	A rescuer should wear personal protective equipment, such as rubber gloves and air-
	tight goggles.
5. FIRE-FIGHTING MEASURE	S
Suitable extinguishing	Dry chemical, foam, water spray, carbon dioxide.
media:	
Specific methods:	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing
	method according to the surrounding situation is used. Uninvolved persons should
	evacuate to a safe place. In case of fire in the surroundings: Remove movable
<b>•</b> • • • • •	containers if safe to do so.
Special protective	When extinguishing fire, be sure to wear personal protective equipment.
equipment for firefighters:	
6. ACCIDENTAL RELEASE M	
Personal precautions, protective equipment and	Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by
emergency procedures:	roping off, etc.
	s: Prevent product from entering drains.
Methods and materials for	
containment and cleaning	Adhered or collected material should be promptly disposed of, in accordance with
up:	appropriate laws and regulations.
ч <b>р</b> .	
7. HANDLING AND STORAGE	
Handling	
<del></del>	Handling is performed in a well ventilated place. Wear suitable protective equipment
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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Melting point/freezing point:68 °C	
Boiling Point/Range:	114 °C/1.6kPa
Flash Point:	No data available
Explosive limits	
Lower:	No data available
Upper:	No data available
Density:	No data available
Solubility:	Soluble in : Acetone Chloroform
-	Slightly soluble in: Ether
log Pow =	-1.56

#### **10. STABILITY AND REACTIVITY**

Stability:	Stable under proper conditions.
Reactivity:	No special reactivity has been reported.
Conditions to avoid:	Moisture-sensitive
Incompartible materials:	oxidizing agents, strong bases
Hazardous Decomposition	Carbon monoxide, Carbon dioxide
Products:	

#### **11. TOXICOLOGICAL INFORMATION**

Acute Toxicity:	No data available
Skin corrosion/irritation:	No data available
Serious eye	No data available
damage/irritation:	
Germ cell mutagenicity:	No data available
Carcinogenicity:	
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	No data available

#### **12. ECOLOGICAL INFORMATION**

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	No data available
Bioaccumulative	No data available
potential(BCF):	
Mobillity in soil	
log Pow:	-1.56
Soil adsorption (Koc):	No data available
Henry's Law	No data available
constant(PaM <sup>3</sup> /mol):	

#### **13. DISPOSAL CONSIDERATIONS**

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

### **14. TRANSPORT INFORMATION**

Hazards Class:Does not correspond to the classification standard of the United NationsUN-No:Not Listed

#### **15. REGULATORY INFORMATION**

Safe management ordinance of dangerous chemical product (State Council announces on January 26, 2002): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

#### **16. OTHER INFORMATION**

#### The reference company name of written contents

Company:	TCI (Shanghai) DEVELOPMENT CO., LTD.
Address:	No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China
Department:	R&D (Information Management) Department
Telephone:	+86-(0)21-67121388*461
Fax:	+86-(0)21-67121385
MSDS was prepared sincerely	on the basis of the information we could obtained, however, any warranty shall not be given regarding the data

This MSDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority.products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.