#### **TECHNICAL DATA**

SHEET (TDS)

**SD-PRE-012-00** 

# Ortho Toluene-Diamine

Property	Specification	Analytical Method
Appearance	Light grey to dark Solid	Visual
Purity (wt%)	min. 98.0	21.70.23A
Other isomers (wt%)	max. 2.0	21.70.23A
Melting point(°C)	60.0-70.0	H900-3000

**KARUNATE**<sup>TM</sup>

OTD

•Ortho toluene-diamine (OTD) is an organic compound with a close formula C6H3CH3(NH2)2. It is a light

gray solid mainly consisted of 2,3-Diamino-Toluene and 3,4-Diamino-Toluene isomers. The compound is

very unstable and tends to darken on storage & exposure to air at room temperature, due to oxidizing

reaction. When heated to decomposition, it emits toxic fumes of nitrogen oxides.

In KARUN Petrochemical Company, OTD is produced as a byproduct through some consecutive reactions

starting with nitrating toluene to produce a dinitrotoluene isomermixture, followed by catalytic reduction

to a mixture of the corresponding diamines, in presence of Palladium-Platinum (Pd-Pt) Catalyst and

terminating to a purification process to separate it from the other companion isomers.

#### Application areas

OTD is used as a chemical intermediate in the production of tolyltriazole that is a corrosion inhibitor. Another application is as a precursor to polyether polyols. It also is used in hair and makeup colors

production, dye and pharmaceutical industries.

#### Address :

Head office: No.17,Khalilzadeh St., Valie-asr Ave., Vanak Sq., Tehran-Iran

#### Factory:

Site 2,Petrochemical Special Economic Zone (Pet zone), Bandar-e-Imam Khomeini-Iran

### شرکت مسایع پتروشی خلیج خارس Persian Gulf Petrochemical Industries Co. POPIC

Karun Petrochemical Company

### **TECHNICAL DATA**

SHEET (TDS)

**SD-PRE-012-00** 

## KARUNATE<sup>™</sup> OTD

<b>5D-1 RE-012-00</b>	
شرکت سنایی پتروشی خلیج فارس Porsian Quif Potrochemical Industries Co. P a P I C شرکت پتروشی کارون	• Handling and storage conditions Careful consideration should be given to handling this product. Use only with adequate ventilation. Toxic by inhalation, skin absorption, and ingestion. Irritating to eyes and skin. Do not eat, drink, or smoke in working area. OTD is readily absorbed through the skin, so skin and eye contact should be prevented. The handlers must wear special equipment which prohibits contact with skin or eyes. It is recommended to shower at the end of work shift.
Ĵ0098 21 88786992-4	Store OTD in a cool, dry, well-ventilated area away from heat generation sources, strong oxidizing agents and strong acids. Store solidified OTD in tightly closed containers.
₿0098 21 88677428	• Packing details 220 liter (about 200 kg) steel barrels are used for the packaging of the OTD product.
Web-site : www.krnpc.ir E-mail : NDashti@krnpc.ir	• Licensor: Chematur Engineering (CEAB), Sweden.