

# Chemical Safety Data Sheet

## SECTION 1 IDENTIFICATION

**Product Name:** o-Phthalic anhydride.

**Other Name:** Phthalic anhydride.

**Product use:** An important raw material in the chemical industry.

**Supplier's name:** Tangshan Huayi Industry Holdings Co., Ltd.

**Supplier's address:** Fengnan Lingang Economic Development Zone, Tangshan City, Hebei Province.

**Zip code:**

**Contact phone/fax:** 0315-5093377/0315-5090770

**Emergency phone number:**

## SECTION 2 HAZARDS IDENTIFICATION

### Classification of the substance or mixture

Acute Toxicity (oral) Category 4, Skin corrosion/irritation Category 2, Serious Eye Damage/Eye irritation Category 1, Respiratory sensitizer Category 1, Skin sensitizer Category 1, Specific target organ toxicity, single exposure: Category 3 (Respiratory tract irritation).

### GHS Label elements, including precautionary statements



**Signal word:** Danger.

**Hazard statement(s):** Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation.

### Precautionary statement(s):

**Prevention:** Keep container tightly closed. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** IF SWALLOWED: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. IF ON SKIN: Take off contaminated clothing and wash it before reuse. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Specific treatment (see supplemental first aid instructions on this label).

**Storage:** Store in well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal:** Dispose of contents/container to in accordance with national regulations.

**Other hazards which do not result in classification:** /

## SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration
o-Phthalic anhydride	85-44-9	99.77%

**SECTION 4 FIRST AID MEASURES****Description of necessary first aid measures**

**If inhaled:** If breathed in, move person into fresh air. Keep respiratory tract unobstructed. If difficulty in breathing, give oxygen. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Take off immediately all contaminated clothing. Wash off with soap and plenty of water. Consult a physician. Wash contaminated clothing before re-use.

**In case of eye contact:** Filed eyelid, rinse thoroughly with plenty of water for 15 minutes, consult a physician.

**If swallowed:** Rinse mouth. Consult a physician. Never give anything by mouth or induce vomiting in a person who is unconscious or convulsing.

**Most important symptoms and effects, both acute and delayed:** /

**Indication of immediate medical attention and special treatment needed:** /

**SECTION 5 FIREFIGHTING MEASURES**

**Suitable extinguishing media:** Water spray, alcohol-resistant foam, dry chemical, carbon dioxide.

**Special hazards arising from the chemical:** /

**Special protective actions for fire-fighters:** Firefighters should wear self-contained breathing apparatus and full protective clothing, fire in the wind.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures:** Avoid breathing dust and contact with skin and eyes. Wear protective clothing, gloves, safety glasses and gas mask.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for containment and cleaning up:** Evacuate personnel to safe areas, and in isolation, restricted access. Emergency response personnel wear dust mask, protective clothing. Cut off the leak source as possible. MINOR SPILLS: Avoid dust with clean shovel collected to dry, clean, covered containers for disposal. MAJOR SPILLS: Cover with plastic or canvas, recycling or collection shipped to the waste treatment plant.

**SECTION 7 HANDLING AND STORAGE**

**Precautions for safe handling:** Operators must receive special training, strictly abide by the operation procedures. Suggest operators wear dust mask, eye protection, protective clothing, rubber gloves. Avoid contact with eyes, skin and clothing. Keep ambient air flowing when operating. Keep away from sparks, heat. No smoking. Equipped with corresponding varieties and number of fire equipment and spill contingency processing equipment.

**Conditions for safe storage, including any incompatibilities:** Store in cool, dry, well ventilated place. Keep away from sparks, heat source and direct sunlight. Pay attention to moisture and rain. Keep container tightly closed. Handling gently. Store away from oxidants, acids, alkalis, food chemicals. Storage area should be equipped with emergency treatment equipment and suitable collecting container for spill.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters:**

Source	Material	OELs(mg/m <sup>3</sup> )			Remark
		MAC	PC-TWA	PC-STEL	
China Occupational Exposure Limits for Hazardous Agents in the Workplace	o-Phthalic anhydride	1	-	-	Sensitization

Note: Sensitization means the substance has been confirmed by human or animal data may be sensitized.

**Appropriate engineering controls:** Airtight operation, local exhaust ventilation. Provide safety showers and eyewash station near workplace.

**Personal protective equipment:**

**Eye/face protection:** Wearing protective chemical safety goggles and protective masks. Contact lenses may pose a special hazard, soft contact lenses may absorb and concentrate irritants.

**Hand protection:** Wear chemical protective gloves.

**Skin and body protection:** Wear safety footwear or safety gumboots, eg. Rubber. Protective clothing.

**Respiratory protection:** Possible exposure to dust should wear dust mask. Emergency rescue or evacuation, it is recommended to wear air respirators.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state:</b>	Flaky solid
<b>Colour:</b>	White
<b>odor:</b>	/
<b>Melting point/freezing point:</b>	131.2°C
<b>Boiling point or initial boiling and boiling range:</b>	295°C
<b>Flammability:</b>	/
<b>Lower and upper explosion limit/flammable limit:</b>	/
<b>Flash point:</b>	/
<b>Auto-ignition temperature:</b>	/
<b>Decomposition temperature:</b>	/
<b>pH:</b>	/
<b>Kinematic viscosity:</b>	/
<b>Solubility:</b>	Insoluble in cold water, easily soluble in hot water.
<b>Partition coefficient n-octanol/water (log value):</b>	/
<b>Vapor pressure:</b>	/
<b>Density and/or relative density:</b>	1.53
<b>Relative vapor density:</b>	/
<b>Particle characteristics</b>	/

**SECTION 10 STABILITY AND REACTIVITY**

**Reactivity:** /

**Chemical stability:** Stable under recommended storage conditions.

**Possibility of hazardous reactions:** /

**Conditions to avoid:** Moist air.

**Incompatible materials:** Strong acids, strong alkalis, strong oxidants, strong reducing agents.

**Hazardous decomposition products:** Carbon oxides.

**SECTION 11 TOXICOLOGICAL INFORMATION**

**Acute health effects:** /

**Chronic health effects:** /

**Numerical measures of toxicity(such as acute toxicity estimates):** LD50: 1530mg/Kg(oral-Rat).

**SECTION 12 ECOLOGICAL INFORMATION**

**Toxicity:** /

**Persistence and degradability:** /

**Bioaccumulative potential:** /

**Mobility in soil:** /

**Other adverse effects:** /

### SECTION 13 DISPOSAL CONSIDERATIONS

**Disposal methods:** Recycle wherever possible. Consult manufacturer for recycling options or consult local waste management authority or professional waste disposal company for disposal. Decontaminate empty containers.

### SECTION 14 TRANSPORT INFORMATION

**UN number:** /

**UN proper shipping name:** /

**Transport hazard class(es):** /

**Packaging group:** /

**Environmental hazards:** No.

**Special precautions for user:** /

### SECTION 15 REGULATORY INFORMATION

**Regulations:** All users must comply with the regulations or standards about safety production, use, storage, transportation, loading and unloading of hazardous chemical in our country.

Regulations on the Safety Management of Dangerous Chemicals (Order No. 645 of the State Council of 2013)

Regulations on the Safe Use of Chemicals in the Workplace ([1996] Labor Department issued No. 423)

List of dangerous goods (GB 12268-2012)

Classification and code of dangerous goods (GB 6944-2012)

The principle of classification of transport packaging groups of dangerous goods (GB/T15098-2008)

Occupational exposure limits for hazardous agents in the workplace Chemically hazardous agents (GBZ 2.1 - 2007)

Safety data sheet for chemical products-Content and order of sections (GB/T 16483-2008)

Rules for classification and labelling of chemicals - Part 18: Acute toxicity (GB 30000.18 - 2013)

Rules for classification and labelling of chemicals - Part 19: Skin corrosion / irritation (GB 30000.19 - 2013)

Rules for classification and labelling of chemicals - Part 20: Serious eye damage/eye irritation (GB 30000.20 - 2013)

Rules for classification and labelling of chemicals - Part 21: Respiratory or skin sensitization (GB 30000.21 - 2013)

Rules for classification and labelling of chemicals - Part 25: Specific target organ toxicity-Single exposure (GB 30000.25 - 2013)

### SECTION 16 OTHER INFORMATION

**Other information:** The SDS is prepared according to the requirement of Globally Harmonized System of classification and labeling of chemicals (GHS) (Rev.7,2017 Edition) and GB/T 16483-2008. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purpose. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, however, arising from using the above information. The data of the SDS is only for reference, not representative of the specifications of the products.

# o-Phthalic anhydride



## Danger

Keep out of the reach of children

Read label before use

**Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation.**

**Prevention:** Keep container tightly closed. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

**Response: IF SWALLOWED:** Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. **IF on SKIN:** Take off contaminated clothing and wash it before reuse. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

**Storage:** Store in well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal:** Dispose of contents/container to in accordance with national regulations.

**Company Name :** Tangshan Huayi Industry Holdings Co., Ltd.

**Address :** Fengnan Lingang Economic Development Zone, Tangshan City, Hebei Province.

**Zip code:**

**Telephone:** 0315-5093377

**Fax:** 0315-5090770

**Emergency phone:**

**Content:**

**Net Weight:** Gross Weight:

**Expiry Date:** Lot Number:

**Product Standard:**

