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

1.1 Product identifiers
    Product name : Iso Phthalic Acid
    CAS-No. : 121-91-5

1.2 Relevant identified uses of the substance or mixture and uses advised against
    Identified uses : Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet
    Company : Central Drug House (P) Ltd
               7/28 Vardaan House
               New Delhi -110002
               INDIA
    Telephone : +91 11 49404040
    Email : care@cdhfinechemical.com

1.4 Emergency telephone number
    Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
    Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements
    Not a hazardous substance or mixture.

2.3 Other hazards
    This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances
    Synonyms : Benzene-1,3-dicarboxylic acid

    Formula : C_8H_6O_4
    Molecular weight : 166.13 g/mol
    CAS-No. : 121-91-5
    EC-No. : 204-506-4

    No components need to be disclosed according to the applicable regulations.
SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact
Wash off with soap and plenty of water.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapours, mist or gas.
For personal protection see section 8.

6.2 Environmental precautions
No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non Combustible Solids

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

8.2 Exposure controls

Appropriate engineering controls
General industrial hygiene practice.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Respiratory protection is not required. Where protection from nuisance dust (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
No special environmental precautions required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance  Form: powder
                   Colour: beige
b) Odour          No data available
c) Odour Threshold No data available
d) pH              No data available
e) Melting point/freezing point  Melting point/range: 341 - 343 °C - lit.
f) Initial boiling point and boiling range No data available
g) Flash point     No data available
h) Evaporation rate No data available
i) Flammability (solid, gas) The product is not flammable.
j) Upper/lower flammability or explosive limits No data available
k) Vapour pressure No data available
l) Vapour density  No data available
m) Relative density 1.53 g/cm3 at 25 °C
n) Water solubility ca. 0.12 g/l at 25 °C - soluble
o) Partition coefficient: n-octanol/water log Pow: 0.005 at 22 °C
p) Auto-ignition temperature No data available
q) Decomposition temperature No data available
r) Viscosity No data available
s) Explosive properties No data available
t) Oxidizing properties No data available

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents, Strong bases

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - male and female - > 5,000 mg/kg(Isophthalic acid)
(OECD Test Guideline 401)
LC50 Inhalation - Rat - male and female - 4 h - > 11,370 mg/m3(Isophthalic acid)
(OECD Test Guideline 403)
LD50 Dermal - Rabbit - male and female - > 2,000 mg/kg(Isophthalic acid)
(OECD Test Guideline 402)

Skin corrosion/irritation
Skin - Rabbit(Isophthalic acid)
Result: No skin irritation - 4 h
(OECD Test Guideline 404)

Serious eye damage/eye irritation
Eyes - Rabbit(Isophthalic acid)
Result: No eye irritation - 2 s
(OECD Test Guideline 405)

Respiratory or skin sensitisation
Maximisation Test - Guinea pig(Isophthalic acid)
Result: Does not cause skin sensitisation. 
(OECD Test Guideline 406)

**Germ cell mutagenicity**
Hamster(Isophthalic acid)
ovary
Result: negative

**Carcinogenicity**
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**
No data available(Isophthalic acid)

**Specific target organ toxicity - single exposure**
No data available(Isophthalic acid)

**Specific target organ toxicity - repeated exposure**
No data available

**Aspiration hazard**
No data available(Isophthalic acid)

**Additional Information**
RTECS: NT2007000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Isophthalic acid)

**SECTION 12: Ecological information**

12.1 **Toxicity**

- **Toxicity to fish**
  static test LC50 - Leuciscus idus melanotus - > 907 mg/l - 96 h(Isophthalic acid) 
  (OECD Test Guideline 203)

- **Toxicity to daphnia and other aquatic invertebrates**
  static test EC50 - Daphnia magna (Water flea) - > 952 mg/l - 48 h(Isophthalic acid) 
  (OECD Test Guideline 202)

- **Toxicity to algae**
  static test ErC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - > 1,000 mg/l - 96 h(Isophthalic acid) 
  (OECD Test Guideline 201)

- **Toxicity to bacteria**
  Respiration inhibition EC50 - Sludge Treatment - 617.1 mg/l - 3 h(Isophthalic acid) 
  (OECD Test Guideline 209)

12.2 **Persistence and degradability**

- **Biodegradability**
  aerobic - Exposure time 14 d(Isophthalic acid)
  Result: 85 % - Readily biodegradable 
  (OECD Test Guideline 301B)

12.3 **Bioaccumulative potential**
No data available

12.4 **Mobility in soil**
No data available(Isophthalic acid)

12.5 **Results of PBT and vPvB assessment**
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Other adverse effects
No data available

SECTION 13: Disposal considerations
13.1 Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information
14.1 UN number
ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

14.3 Transport hazard class(es)
ADR/RID: - IMDG: - IATA: -

14.4 Packaging group
ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user
No data available

SECTION 15: Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment
For this product a chemical safety assessment was not carried out

SECTION 16: Other information
Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.