

MATERIAL SAFETY DATA SHEET SDS/MSDS

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

1.1 **Product identifiers**

> : p-Nitro Phenol Product name

CAS-No. : 100-02-7

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

Bio-Chem Chemicals Company

5455 NicholsonRoad, Science Market Ambala Cantt, 133001 - Haryana +91 82952 41953

info@biofinechemical.com - www.biofinechemical.com

1.4 Emergency telephone number

Emergency Phone # +91 99921 51495 (10.00am - 06.30pm) (Office Hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhalation (Category 4), H332 Acute toxicity, Dermal (Category 4), H312

Specific target organ toxicity - repeated exposure (Category 2), H373

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

Danger Signal word

Hazard statement(s)

H301 Toxic if swallowed.

H312 + H332 Harmful in contact with skin or if inhaled H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P261

IF SWALLOWED: Immediately call a POISON CENTER or doctor/ P301 + P310 + P330

physician. Rinse mouth.

IF ON SKIN: Wash with plenty of water. Call a POISON CENTER or P302 + P352 + P312

doctor/ physician if you feel unwell.

IF INHALED: Remove person to fresh air and keep comfortable for P304 + P340 + P312

breathing. Call a POISON CENTER or doctor/ physician if you feel

unwell.

Supplemental Hazard

Statements

none

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

3.1Substances

p-Nitrophenol Synonyms

C_{6H5NO3} Formula 139,11 g/mol Molecular weight CAS-No. 100-02-7 EC-No. 202-811-7 Index-No. 609-015-00-2

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component Classification Concentration

p-Nitrophenol

CAS-No. 100-02-7 Acute Tox. 3; Acute Tox. 4; <= 100 %

EC-No. 202-811-7 STOT RE 2; H301, H332,

609-015-00-2 Index-No. H312, H373

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

Description of first aid measures 4.1

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eve contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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, Nitrogen oxides (NOx)

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

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. 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

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

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, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

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

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Face shield and safety glasses 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

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance Form: crystalline

Colour: light yellow

b) Odourc) Odour Thresholddata availableNo data available

d) pH 4,4 at 5,00000 g/l at 24,0 °C

e) Melting point/freezing

point

Melting point/range: 110 - 115 °C - lit.

f) Initial boiling point and

boiling range

279 °C - lit.

g) Flash point 169,0 °C - closed cup

h) Evaporation rate No data available i) Flammability (solid, gas) No data available

No data available Upper/lower j)

flammability or explosive limits

9,2 hPa at 165,0 °C k) Vapour pressure

0.8 hPa at 120.0 °C

Vapour density No data available

m) Relative density 1,48 g/cm3 at 20,00 °C

n) Water solubility 15 g/l

o) Partition coefficient: n-

octanol/water

log Pow: 1,91

p) Auto-ignition 283,0 °C

temperature

q) Decomposition temperature

No data available

r) Viscosity No data available s) Explosive properties No data available Oxidizing properties No data available

9.2 Other safety information

> 550 kg/m3 **Bulk density**

760 kg/m3

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

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 - 202,0 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration: Dyspnea.

LD50 Dermal - Rat - 1.024 mg/kg

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

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

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Aspiration hazard

No data available

Additional Information

RTECS: SM2275000

Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., Depending on the intensity and duration of exposure, effects may vary from mild irritation to severe destruction of tissue., Damage to the eyes. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Eyes -

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish LC50 - Cyprinodon variegatus (sheepshead minnow) - 26,70 - 31,30 mg/l - 96

h

LC50 - Oncorhynchus mykiss (rainbow trout) - 3,80 - 18,00 mg/l - 96 h LC50 - Pimephales promelas (fathead minnow) - 30,40 - 67,00 mg/l - 96 h NOEC - Oncorhynchus mykiss (rainbow trout) - 5,31 mg/l - 14 d EC50 -

Trozo onochijnonac mjiace (rambon abat) ojor mg/r

Toxicity to daphnia and

other aquatic invertebrates

Daphnia magna (Water flea) - 3,10 - 24,00 mg/l - 48 h

Toxicity to algae EC50 - No information available. - 11,00 mg/l - 48 h

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d

Result: 90 % - Readily biodegradable

12.3 Bioaccumulative potential

Bioaccumulation Pimephales promelas (fathead minnow) - 28 d

- 0,0441 mg/l

Bioconcentration factor (BCF): 280

12.4 Mobility in soil

No data available

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

Toxic to aquatic life.

Do not empty into drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADR/RID: 1663 IMDG: 1663 IATA: 1663

14.2 UN proper shipping name

ADR/RID: NITROPHENOLS

IMDG: NITROPHENOLS (o-, m-, p-)

IATA: Nitrophenols

14.3 Transport hazard class(es)

ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

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

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

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

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H301 Toxic if swallowed.

H312 Harmful in contact with skin.

H312 + H332 Harmful in contact with skin or if inhaled

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

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.