

SAFETY DATA SHEET

Revision Date 08/04/2023

1. PRODUCT AND COMPANY IDENTIFICATION

- 1.1 Product identifiers**
 Product name : HONp
 Product Number : RC8203
 Brand : Advanced ChemTech
 CAS-No. : 100-02-7
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
 Identified uses : Laboratory chemicals, Manufacture of substances
- 1.3 Details of the supplier of the safety data sheet**
 Company : Advanced ChemTech
 5609 Fern Valley Rd, Louisville, KY 40228 USA
 Telephone : +1 833-317-5620
 Fax : +1 502-968-1000
- 1.4 Emergency telephone number** : +1 800-424-9300 Chemtrec

2. HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
 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
 Acute aquatic toxicity (Category 2), H401
 Chronic aquatic toxicity (Category 2), H411
 For the full text of the H-Statements mentioned in this Section, see Section 16
- 2.2 GHS Label elements, including precautionary statements:**
 Pictogram



Signal word
Hazard statement(s)

H301
 H312 + H332
 H373
 H411

Danger

Toxic if swallowed.
 Harmful in contact with skin or if inhaled
 May cause damage to organs through prolonged or repeated exposure.
 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P260
 P264
 P270
 P271
 P273
 P280
 P301 + P310
 P302 + P352
 P304 + P340

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
 Wash skin thoroughly after handling.
 Do not eat, drink or smoke when using this product
 Use only outdoors or in a well-ventilated area.
 Avoid release to the environment.
 Wear protective gloves/ protective clothing.
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
 IF ON SKIN: Wash with plenty of soap and water.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 Get medical advice/ attention if you feel unwell.
 Specific measures (see supplemental first aid instructions on this label).
 Rinse mouth.
 Wash contaminated clothing before reuse.
 Collect spillage.
 Store locked up.
 Dispose of contents/ container to an approved waste disposal plant

- 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none**

3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substances**
 Synonyms : p-Nitrophenol
 Formula : C₆H₅NO₃
 Molecular Weight : 139.11g/mole
 CAS-No. : 100-02-7

Hazardous Components

Component	Classification	Concentration
p-Nitrophenol	Acute Tox. 3; Acute Tox. 4; STOT RE 2; Aquatic Acute 2; H301, H312 + H332, H373, H401	90 - 100 %

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

4. FIRST AID MEASURES

- 4.1 Description of first aid measures**
General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled: 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.

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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. 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 labeling (see section 2.2) and/or in section 11

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

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 (NO_x)

5.3 Advice for firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information: No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, protective equipment, and emergency procedure: 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.

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: Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s): Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters: Contains no substances with occupational exposure limit values.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Form: Golden Crystals
b) Odor	no data available
c) Odor Threshold	no data available
d) pH	4.4 at 5.00000 g/l at 24.0 °C (75.2 °F)
e) Melting point/freezing point	Melting point/range: 110 - 115 °C (230 - 239 °F) - lit.
f) Initial boiling point and boiling range	279 °C (534 °F) - lit
g) Flash point	169.0 °C (336.2 °F) - closed cup
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapor pressure	9.2 hPa (6.9 mmHg) at 165.0 °C (329.0 °F) 0.8 hPa (0.6 mmHg) at 120.0 °C (248.0 °F)
l) Vapor density	no data available
m) Relative density	1.48 g/cm ³ at 20.00 °C (68.00 °F)
n) Water solubility	15 g/l
o) Partition coefficient: n- octanol/water	log Pow: 1.91
p) Auto-ignition temperature	283.0 °C (541.4 °F)
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:

Bulk density
550 kg/m³
760 kg/m³

10. STABILITY AND REACTIVITY

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- 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

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
Inhalation: No data available
Dermal: LD50 Dermal - Rat - 1,024 mg/kg
Skin corrosion/irritation: No data available
Serious eye damage/eye irritation: No data available
Respiratory or skin sensitization: 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.
 ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
 NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
 OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
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. Eyes -

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
 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: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6 Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life. Do not empty into drains.

13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. 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.

14. TRANSPORT INFORMATION

DOT (US)
 UN number: 1663 Class: 6.1 Packing group: III
 Proper shipping name: Nitrophenols
 Reportable Quantity (RQ): 100 lbs
 Marine pollutant: No
 Poison Inhalation Hazard: No
IMDG
 UN number: 1663 Class: 6.1 Packing group: III EMS-No: F-A, S-A
 Proper shipping name: NITROPHENOLS (o-, m-, p-)
 Marine pollutant: No
IATA
 UN number: 1663 Class: 6.1 Packing group: III
 Proper shipping name: Nitrophenols

15. REGULATORY INFORMATION

SARA 302 Components: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components: The following components are subject to reporting levels established by SARA Title III, Section 313:

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SARA 311/312 Hazards: Acute Health Hazard

Massachusetts Right to Know Components:

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Pennsylvania Right to Know Components

HONp

CAS-No.

100-02-7

Revision Date

2007-07-01

New Jersey Right to Know Components

HONp

CAS-No.

100-02-7

Revision Date

2007-07-01

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

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

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
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.
H401	Toxic to aquatic life.

HMIS Rating

Health hazard: 2

Chronic Health Hazard:

Flammability: 1

Physical Hazard 0

NFPA Rating

Health hazard: 2

Fire Hazard: 1

Reactivity Hazard: 0

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. Advanced ChemTech shall not be liable for any damage resulting in the handling or from contact with the above product.