

2-Nitrophenylhydrazine hydrochloride: sc-356514



The Power to Question

MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: 2-Nitrophenylhydrazine hydrochloride

Catalog Number: sc-356514

Supplier: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, CA 95060
800.457.3801 or 831.457.3800

Emergency: ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

Section 2: Hazards identification

Classification of the substance or mixture

Classification under CHIP: F: R11; Xn: R20/21/22; Xi: R36/37/38

Classification under CLP: STOT SE 3: H335; Acute Tox. 4: H302+312+332; Eye Irrit. 2: H319; Flam. Sol. 1: H228; Skin Irrit. 2: H315

Most important adverse effects: Highly flammable. Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

Label elements

Label elements under CLP

Hazard statements

H228	Flammable solid.
H302+312+332	Harmful if swallowed, in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Signal words: Danger

Hazard pictograms:

GHS02 Flame



GHS07 Exclamation mark



Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking.

Label elements under CHIP

Hazard symbols

Highly flammable



Harmful



Risk phrases

R11 Highly flammable.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.

Safety phrases

S22 Do not breathe dust.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of water.
S36/37/39 Wear suitable protective clothing, gloves and eye / face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Other hazards

Other hazards: In use, may form flammable/ explosive vapor-air mixture. Risk of explosion by shock, friction, fire or other sources of ignition.

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

Substances

Chemical identity: 2-NITROPHENYLHYDRAZINE HYDROCHLORIDE
CAS number: 6293-87-4
Molecular formula: C₆H₇N₃O₂ · HCl
Molecular weight: 189.6

Section 4: First aid measures

Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a liter of water to drink immediately. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

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

Section 5: Fire-fighting measures

Extinguishing media

Extinguishing media: Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the surrounding fire should be used.

Special hazards arising from the substance or mixture

Exposure hazards: Highly flammable. Forms explosive air-vapor mixture. Vapor may travel considerable distance to source of ignition and flash back. Risk of explosion by shock, friction, fire or other sources of ignition. In combustion emits toxic fumes. Carbon oxides. Nitrogen oxides (NOx). Hydrogen chloride (HCl).

Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

Reference to other sections: No data available.

Section 7: Handling and storage

Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools. Only use in fume hood.

Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition. Light Sensitive. Store under Argon. Store at room temperature.

Suitable packaging: Must only be kept in original packaging.

Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

Control parameters

Workplace exposure limits: Not applicable.

Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

Section 9: Physical and chemical properties

State	Powder	Flash point°C	23 – 55
Solubility in water	Soluble in hot water and hot methanol	Other information	Not applicable

Section 10: Stability and reactivity

Reactivity

Reactivity: Stable under recommended transport or storage conditions.

Chemical stability

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions

Hazardous reactions: May explosively decompose on heating, friction, shock.

Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Sources of ignition. Flames. Light.

Incompatible materials

Materials to avoid: Strong oxidizing agents. Strong acids.

Hazardous decomposition products

Hazardous decomposition products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides (NOx). Hydrogen chloride (HCl).

Section 11: Toxicological information**Information on toxicological effects****Relevant hazards for substance**

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH DRM ING	Based on test data
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data
STOT-single exposure	INH	Based on test data

Symptoms/ routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Other information

RTECS: MV8230000

Section 12: Ecological information**Toxicity**

Ecotoxicity values: Not applicable.

Persistence and degradability

Persistence and degradability: No data available.

Bioaccumulative potential

Bioaccumulative potential: No data available.

Mobility in soil

Mobility: No data available.

Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations**Waste treatment methods**

Disposal operations: MATERIAL SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Disposal of packaging: Dispose of as special waste in compliance with local and national regulations Observe all federal, state and local environmental regulations.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

IATA UN number

UN number: UN1325

UN proper shipping name

Shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S.

Transport hazard class(es)

Transport class: 4.1

Packing group

Packing group: II

Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

Special precautions for user

Tunnel code: E

Transport category: 2

Section 15: Regulatory information

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

Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

4/17/2012