SAFETY DATA SHEETS

According to the UN GHS revision 10

Version: 1.1 Creation Date: July 15, 2024 Revision Date: February 23, 2025

| SEC | TION 1: Identification | |
|----------------------------|---|--|
| 1.1 | GHS Product identifier | |
| | Product name | 1-Acetyl-2-phenylhydrazine |
| 1.2 | Other means of identification | on |
| | Product number Other names | 114-83-0 N'-phenylacetohydrazide; 1-Acetyl-2-Phenylhydrazine; Acetic acid, 2-phenylhydrazide |
| 1.3 | 3 Recommended use of the chemical and restrictions on use | |
| | Identified uses Uses advised against | For laboratory and Industrial use only. no data available |
| 1.4 | Supplier's details | |
| | Company Address Telephone | Zhongshan Greenrock Technology Co., Ltd. Jinsan Avenue, Sanjiao Town, Zhongshan City, Guangdong Province, China +86-2087066781 |
| 1.5 Emergency phone number | | |
| | Emergency phone number Service hours | +86-2087066781 'Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8 hours). |
| SEC | TION 2: Hazard identifica | tion |

2.1 Classification of the substance or mixture

Acute toxicity - Category 3, Oral Skin irritation, Category 2 Skin sensitization, Category 1 Eye irritation, Category 2 Specific target organ toxicity – single exposure, Category 3

2.2 GHS label elements, including precautionary statements

| Pictogram(s) |
|--------------|
|--------------|

| Signal word | Danger | | |
|----------------------------|--|--|--|
| Hazard statement(s) | H301 Toxic if swallowed | | |
| | H315 Causes skin irritation | | |
| | H317 May cause an allergic skin reaction | | |
| | H319 Causes serious eye irritation | | |
| | H335 May cause respiratory irritation | | |
| Precautionary statement(s) | | | |
| Prevention | P264 Wash thoroughly after handling. | | |
| | P270 Do not eat, drink or smoke when using this product. | | |
| | P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/ | | |
| | P261 Avoid breathing dust/fume/gas/mist/vapours/spray. | | |
| | P272 Contaminated work clothing should not be allowed out of the workplace. | | |
| | P271 Use only outdoors or in a well-ventilated area. | | |

| Response | P301+P316 IF SWALLOWED: Get emergency medical help immediately. |
|----------|---|
| • | P321 Specific treatment (see on this label). |
| | P330 Rinse mouth. |
| | P302+P352 IF ON SKIN: Wash with plenty of water/ |
| | P332+P317 If skin irritation occurs: Get medical help. |
| | P362+P364 Take off contaminated clothing and wash it before reuse. |
| | P333+P317 If skin irritation or rash occurs: Get medical help. |
| | P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove |
| | contact lenses, if present and easy to do. Continue rinsing. |
| | P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| | P319 Get medical help if you feel unwell. |
| Storage | P405 Store locked up. |
| - | P403+P233 Store in a well-ventilated place. Keep container tightly closed. |
| Disposal | P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. |

2.3 Other hazards which do not result in classification

no data available

SECTION 3: Composition/information on ingredients

3.1 Substances

| Chemical name | Common names and synonyms | CAS number | EC number | Concentration |
|----------------------------|---------------------------|------------|-----------|----------------|
| 1-Acetyl-2-phenylhydrazine | 2'-phenylacetohydrazide | 114-83-0 | 204-055-3 | $\approx 99\%$ |

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

4.2 Most important symptoms/effects, acute and delayed

ACUTE/CHRONIC HAZARDS: When heated to decomposition this compound emits toxic fumes. (NTP, 1992)

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Basic treatment: Establish a patent airway. Suction if necessary. Watch for signs of respiratory insufficiency and assist ventilations if necessary. Administer oxygen by nonrebreather mask at 10 to 15 L/min. Monitor for pulmonary edema and treat if necessary. Anticipate seizures and treat if necessary. For eye contamination, flush eyes immediately with water. Irrigate each eye continuously with normal saline during transport. Do not use emetics. For ingestion, rinse mouth and administer 5 ml/kg up to 200 ml of water for dilution if the patient can swallow, has a strong gag reflex, and does not drool. Administer activated charcoal. Cover skin burns with dry, sterile dressings after decontamination. Hydrazine and Related Compounds

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Fires involving this material can be controlled with a dry chemical, carbon dioxide or Halon extinguisher. (NTP, 1992)

5.2 Specific hazards arising from the chemical

Flash point data for this compound are not available. It is probably combustible. (NTP, 1992)

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people

away from and upwind of spill/leak.

6.2 Environmental precautions

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

6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use sparkproof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

7.2 Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the riskelimination area.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

Thermal hazards

no data available

SECTION 9: Physical and chemical properties and safety characteristics

| Physical state | PHYSICAL DESCRIPTION: Colorless prisms or white solid. (NTP, 1992) |
|--|--|
| Colour | Hexagonal prisms |
| Odour | no data available |
| Melting point/freezing point | -23°C(lit.) |
| Boiling point or initial boiling point and | 78°C/17mmHg(lit.) |
| boiling range | |
| Flammability | no data available |
| Lower and upper explosion | no data available |
| limit/flammability limit | |
| Flash point | 253°C(lit.) |
| Auto-ignition temperature | no data available |
| Decomposition temperature | no data available |
| рН | no data available |
| Kinematic viscosity | no data available |
| Solubility | less than 1 mg/mL at 66° F (NTP, 1992) |
| Partition coefficient n-octanol/water | log Kow = 0.74 /Estimated/ |
| Vapour pressure | 1E-06mmHg at 25°C |
| Density and/or relative density | 1.143g/cm3 |
| | |

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

no data available

10.3 Possibility of hazardous reactions

1-ACETYL-2-PHENYLHYDRAZIDE is an amide and an amine. Organic amides/imides react with azo and diazo compounds to generate toxic gases. Flammable gases are formed by the reaction of organic amides/imides with strong reducing agents. Amides are very weak bases (weaker than water). Imides are less basic yet and in fact react with strong bases to form salts. That is, they can react as acids. Mixing amides with dehydrating agents such as P2O5 or SOC12 generates the corresponding nitrile. The combustion of these compounds generates mixed oxides of nitrogen (NOx).

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

When heated to decomposition it emits toxic fumes of nitrogen oxide

SECTION 11: Toxicological information

Acute toxicity

- Oral: LD50 Mouse oral 270 mg/kg
- Inhalation: no data availableDermal: no data available
- Dermai. no data available

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

SECTION 12: Ecological information

12.1 Toxicity

- Toxicity to fish: no data available
- Toxicity to daphnia and other aquatic invertebrates: no data available
- Toxicity to algae: no data available
- Toxicity to microorganisms: no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil no data available

12.5 Other adverse effects

no data available

SECTION 13: Disposal considerations

13.1 Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

SECTION 14: Transport information

14.1 UN Number

| | ADR/RID: UN2811 (For reference only, please check.) | IMDG: UN2811 (For reference only, please check.) | IATA: UN2811 (For reference only, please check.) |
|------|---|---|---|
| 14.2 | UN Proper Shipping Name | | |
| | ADR/RID: TOXIC SOLID, ORGANIC, N.O.S. (For reference only, please check.) | IMDG: TOXIC SOLID, ORGANIC, N.O.S. (For reference only, please check.) | IATA: TOXIC SOLID, ORGANIC, N.O.S. (For reference only, please check.) |
| 14.3 | Transport hazard class(es) | | |
| | ADR/RID: 6.1 (For reference only, please check.) | IMDG: 6.1 (For reference only, please check.) | IATA: 6.1 (For reference only, please check.) |
| 14.4 | Packing group, if applicable | | |
| | ADR/RID: I (For reference only, please check.) | IMDG: I (For reference only, please check.) | IATA: I (For reference only, please check.) |
| 14.5 | Environmental hazards | | |
| | ADR/RID: No | IMDG: No | IATA: No |
| 14.6 | Special precautions for user | | |
| | no data available | | |

14.7 Transport in bulk according to IMO instruments

no data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

| Chemical name | Common names and synonyms | CAS number | EC number |
|--|---------------------------|------------|-------------|
| 2'-phenylacetohydrazide | 2'-phenylacetohydrazide | 114-83-0 | 204-055-3 |
| European Inventory of Existing Commercial Chemical Substances (EINECS) | | | Listed. |
| EC Inventory | | | Listed. |
| United States Toxic Substances Control Act (TSCA) Inventory | | | Listed. |
| China Catalog of Hazardous chemicals 2015 | | | Not Listed. |
| New Zealand Inventory of Chemicals (NZIoC) | | | Listed. |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS) | | | Listed. |
| Vietnam National Chemical Inventory | | | Listed. |
| Chinese Chemical Inventory of Existing Chemical Substances (China IECSC) | | | Listed. |
| Korea Existing Chemicals List (KECL) | | | Listed. |

SECTION 16: Other information

Information on revision

| Creation Date | July 15, 2024 | | |
|---------------|-------------------|--|--|
| Revision Date | February 23, 2025 | | |

Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road •
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50% .
- LD50: Lethal Dose 50% •
- EC50: Effective Concentration 50%

References

- IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm IARC International Agency for Research on Cancer, website: http://www.iarc.fr/ .
- .
- eChemPortal The Global Portal to Information on Chemical Substances by OECD, website: .
- http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
- CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple .
- ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp .
- ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp .
- ECHA European Chemicals Agency, website: https://echa.europa.eu/ •

Any questions regarding this SDS, Please send your inquiry to export@greenrockchem.com

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