

ALADDIN SCIENTIFIC CORPORATION
14078 Meridian Parkway, Riverside, CA. 92518

SAFETY DATA SHEET

Version: v1
Revision Date: 2025-09-13
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : 2, 4-Dinitrophenylhydrazine
Product Number : D112075
Brand : aladdin
CAS-No. : 119-26-6(Ethanol)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances.

1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION
Address : 14078 Meridian Parkway,
Riverside, CA. 92518
Telephone : +1 (833) 552-7181
Fax : no data available

1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300
CHEMTREC®, Outside the USA :

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquid (category 2), H225

Serious eye damage/eye irritation (category 2A), H319

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H225

Highly Flammable liquid and vapor

H319

Causes serious eye irritation

Precautionary statement(s)

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P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting/.../] equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash hands [and ...] thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P337+P313	IF eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use ... to extinguish.
P405	Store locked up.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Synonyms	: 1-(2,4-Dinitrophenyl)hydrazine DNP
Formula	: no data available
Molecular weight	: no data available

Component	Classification	Concentration
Ethanol		
CAS-No. : 64-17-5	Flam. Liq. 2; Eye Irrit. 2; H225, H319	Concentration limits: >= 50 %: Eye
EC-No. : 200-578-6	Irrit. 2A, H319;	

2, 4-Dinitrophenylhydrazine

CAS-No. : 119-26-6
EC-No. :

SECTION 4: First aid measures

4.1 Description of first aid measures

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General advice

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

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.

In case of skin contact

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

In case of eye contact

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

If swallowed

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 and effects, both acute and delayed

no data available

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

Dry powder dry sand

Unsuitable extinguishing media

Do not spray with water.

5.2 Special hazards arising from the substance or mixture

Carbon oxide Flammable.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

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

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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 spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

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 breathing vapor or mist. Keep away from fire sources. -No smoking. Take measures to prevent static electricity from accumulating. Operate in accordance with good industrial hygiene and safety regulations. Wash your hands before breaks and at the end of work. For preventive measures, see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep the container tightly closed and store in a dry and ventilated place. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

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Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., 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 fullface particle respirator type N100 (US) or type P3 (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

Do not let product enter drains.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

a) Appearance	no data available
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	196 ~ 199°C
f) Initial boiling point and boiling range	no data available
g) Flash point	14°C
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
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	0.842-0.845
n) Water solubility	Slightly soluble in water, dilute inorganic acid, hot alcohol, ethyl acetate and aniline, slightly soluble in ethanol
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

9.2 Other safety information

no data available

SECTION 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

Heat, flame and spark.

10.5 Incompatible materials

Rubber, various plastics

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral-Rat-Male and Female-10,470 mg/kg

(OECD Test Guideline 401)

LC50 inhalation-rat-male and female-4 h-124.7 mg/l

(OECD Test Guideline 403)

Skin corrosion/irritation

Skin-Rabbit Result: No skin irritation-24 h (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes-rabbit Result: Causes serious eye irritation. (OECD Test Guideline 405)

Respiratory or skin sensitisation

Maximum response test-guinea pig Result: negative (OECD Test Guideline 406) Remarks: (Compared with similar products) Corresponding values are specified for the following substances: Methanol

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

Test type: Ames test Test system: Salmonella typhimurium Metabolism activation: with or without metabolic activation Method: OECD Test Guide 471 Result: negative Test type: In vitro mammalian cell gene mutation test Test

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system: mouse lymphoma cells Metabolism activation: with or without metabolic activation Method: OECD Test Guide 476 Result: negative Test type: Dominant lethal test Species: Mouse Route of exposure: Oral Method: OECD Test Guideline 478 Result: A positive result was obtained in some in vivo tests.

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

Repeated exposure toxicity-Rat-Male-Oral-No harmful effects observed-1,730 mg/kg-The lowest water with harmful effects observed

Ping-3,200 mg/kg

Registration of Toxic Effects of Chemical Substances: KQ6300000

Irritation, respiratory paralysis, dizziness, anesthesia, intoxication, euphoria, nausea, vomiting

As far as we know, the chemical, physical and toxic properties have not been fully studied.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish flow-through test LC50-Pimephales promelas (fathead minnow)-15,300 mg/l-96 h

(US-EPA)

No ridge to water flea and other aquatic species

Toxicity of Vertebral Animals

Static test LC50-Ceriodaphnia dubia (Ceriodaphnia dubia)-5,012 mg/l-48 h

Remarks: (ECHA)

Toxicity to algae static test ErC50-Chlorella vulgaris (freshwater algae)-275 mg/l-72 h

(OECD Test Guideline 201)

Toxicity to bacteria static test IC50-activated sludge-> 1,000 mg/l-3 h

(OECD Test Guideline 209)

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

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no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

Product

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur.

Observe all federal, state and local regulations when disposing of the substance.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: 1170

Proper shipping name: Ethanol

Packing group: II

Reportable Quantity(RQ): no data available

Class: 3(8)

Poison Inhalation Hazard: no data available

Environmental Hazards: no

IMDG

UN number: 1170

Proper shipping name: Ethanol

Packing group: II

EMS-No: no data available

IATA

UN number: 1170

Proper shipping name: Ethanol

Packing group: II

Class: 3(8)

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

SECTION 16: Other information

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Prepared By

Regulatory Affairs

ALADDIN SCIENTIFIC CORPORATION

Email: QualityAssurance@aladdinsci.com

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Revision Summary

SDS sections updated v1

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