

MATERIAL SAFETY DATA SHEET

Quinidine Base

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : Quinidine Base

Company Identification : Nicotine Vault
Culver St, Somerville, NJ, 08876, USA

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For further enquiries : Info@nicotinevault.com

SECTION 2 HAZARDS IDENTIFICATION 2.1 Classification of the substance or mixture

Acute toxicity, Oral (Category 3), H301
For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

PictogramSignal word DangerHazard statement(s)H301 Toxic if swallowed.
Precautionary statement(s)P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
Supplemental HazardStatementsnone

2.3 Other hazards - none

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Substances

Molecular formula	: C ₂₀ H ₂₄ N ₂ O ₂
Molecular weight	: 324.42 g/mol
CAS-No.	: 56-54-2
EC-No.	: 200-279-0

Hazardous components

Component	Classification	Concentration
Quinidine	Acute Tox. 3; H301	<= 100 %

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

SECTION 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.

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.

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 labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

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SECTION 5 FIRE FIGHTING 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)

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. 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

Soak up with inert absorbent material and dispose of as hazardous waste. 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 inhalation of vapour or mist.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store under inert gas. Hygroscopic. Air and light sensitive. Storage class (TRGS 510): 6.1B: Noncombustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

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

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

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and

The standard EN 374 derived from it.

Full contact Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374,

Contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

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 (EN 143) respirator Cartridges as a backup to engineering controls. If th 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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- (a) Appearance Form: Crystalline
- (b) Colour White
- (c) Odour No data available
- (d) Odour Threshold No data available
- (e) pH 7.2 - 9.4 at 0.5 g/l
- (f) Melting point/freezing No data available
- (g) Initial boiling point and No data available boiling range
- (h) Flash point No data available
- (i) Evaporation rate No data available
- (j) Flammability (solid, gas) No data available
- (k) Upper/ lower flammability or No data available explosive limits
- (l) Vapour pressure No data available
- (m) Vapour density No data available
- (n) Relative density No data available
- (o) Water solubility No data available (p) Partition coefficient: No data available
noctanol/water
- (q) Auto-ignition No data available temperature
- (r) Decomposition temperature No data available
- (s) Viscosity No data available
- (t) Explosive properties No data available
- (u) Oxidizing properties No data available

9.2 Other safety information

No data available

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

Light

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx) 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

No data available(Quinidine)

Skin corrosion/irritation

Skin - Rabbit(Quinidine)

Result: Mild skin irritation

Serious eye damage/eye irritation

No data available(Quinidine)

Respiratory or skin sensitization

No data available(Quinidine)

Germ cell mutagenicity

No data available(Quinidine)

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(Quinidine)

Specific target organ toxicity –Single exposure

No data available(Quinidine)

Specific target organ toxicity - repeated exposure

No data available(Quinidine)

Aspiration hazard

No data available (Quinidine)

Additional Information

Prolonged or repeated exposure can cause:, Vomiting, Diarrhoea(Quinidine)

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity

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 (Quinidine)

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

No data available

SECTION 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.

SECTION 14 TRANSPORT INFORMATION 14.1 UN number

No data available (Quinidine)

14.2 UN proper shipping name

No data available (Quinidine)

14.3 Transport hazard class (es)

No data available (Quinidine)

14.4 Packaging group

No data available (Quinidine)

14.5 Environmental hazards

ADR/RID: No, IMDG Marine pollutant: No, IATA: No

SECTION 15 REGULATORY INFORMATION

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

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

National legislation Seveso III: Directive 2012/18/EU of the European: ACUTE TOXIC

Parliament and of the Council on the control of major-accident hazards involving dangerous

SECTION 16 ADDITIONAL INFORMATION

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

H300	Fatal if swallowed.
H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard: 4

Chronic Health Hazard: *

Flammability: 1

Physical Hazard 0

NFPA Rating

Health hazard: 4

Fire Hazard: 1

Reactivity Hazard: 0

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 and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.