

Product Name: H-Val-pNA Revision Date: 6/30/2016

Material Safety Data Sheet(MSDS)

I. Product and Company Identification

| Product Name: | H-Val-pNA |
|---------------|-----------|
|---------------|-----------|

Product Catalog Number: A7437

CAS Number: 52084-13-6

Company: APExBIO Technology

7505 Fannin street, Suite 410,

Houston, TX 77054, USA +1-832-696-8203 TEL +1-832-641-3177 FAX

+1-855-577-7998 EMERGENCY PHONE

II. Composition/data on components:

Formula: C11H15N3O3

Molecular Weight: 237.2

III. Hazards identification:

Emergency Overview

OSHA Hazards: No Specific Hazard

IV. First aid measures:

After Inhalation: If inhaled, remove to fresh air; if breathing is

difficult, give oxygen; if breathing stops, give

artificial respiration.

After skin contact: Flush with copious amounts of water; remove

contaminated clothing and shoes; call a physician;

Take victim to hospital immediately; call a

physician.

After eye contact: Check for and remove contact lenses and flush

with copious amounts of water; assure adequate flushing by separating the eyelids with fingers;

call a physician.

After swallowing: If swallowed, wash out mouth with copious

amounts of water; call a physician

V. Fire fighting measures:

Conditions of flammability: Not flammable or combustible.

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry

chemical or carbon dioxide.

Special protective equipment for

firefighters:

Wear self contained breathing apparatus for fire

fighting if necessary.

Hazardous combustion products: Hazardous decomposition products formed under

fire conditions. - Carbon oxides, nitrogen oxides

(NOx), Sulphur oxides.

VI. Accidental release measures:

Personal precautions: Wear respiratory protection. Avoid dust

formation. Avoid breathing vapors, mist or gas.

Environmental precautions: Do not let product enter drains. Prevent further

leakage or spillage if safe to do so.

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.

VII. Handling and storage:

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.

Conditions for safe storage: Keep container tightly closed in a dry and

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Page 2 of 5

well-ventilated place.

Recommended storage temperature: Store at

-20° C

Keep in a dry place.

VIII. Exposure controls and personal protection:

Personal protective equipment as

follows:

Contains no substances with occupational

exposure limit values.

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).

Hand 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.

Eye protection: Use equipment for eye protection tested and

approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Choose body protection in relation to its type, to

the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of

the dangerous substance at the specific

workplace.

Hygiene measures: General industrial hygiene practice.

IX. Stability and reactivity:

Chemical stability: Stable under recommended storage conditions. Possibility of hazardous reactions: No data available. Conditions to avoid: No data available. Materials to avoid: Strong acids, Strong bases. X. Toxicological information: 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. XI. Ecological information: General notes: No data available. XII. Disposal consideration: General notes: Dispose of in accordance with prevailing country, federal, state and local regulations XIII. Toxicological information: This substance is considered to be non-hazardous DOT (US): for transport. ©COPYRIGHT 2016 BY APEXBIO TECHNOLOGY Page 4 of 5

IMDG: UN number: 3077

Class: 9

Packing group: III EMS-No: F-A, S-F

Proper shipping name: Environmentally

hazardous substance, solid, n.o.s. Marine pollutant: Marine pollutant

IATA: UN number: 3077

Class: 9

Packing group: III

Proper shipping name: Environmentally

hazardous substance, solid, n.o.s.

XIV. Regulations:

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: SARA 313: This material does not contain any

chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Acute Health Hazard.

Massachusetts Right To Know No components are subject to the Massachusetts

Components:

No components are subject to the New Jersey Right to Know Act.

Right to Know Act.

New Jersey Right To Know

Pennsylvania Right To Know

Components:

Components:

No components are subject to the New Jersey

Right to Know Act.

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.