



SAFETY DATA SHEET

Preparation Date: 12/5/2016

Revision Date: Not Applicable

Revision Number: Not Applicable

1. IDENTIFICATION

Product identifier

Product code: A1426
Product Name: Amyl Nitrite

Other means of identification

Synonyms: Nitrous acid, pentyl ester
n-Amyl nitrite
Nitramyl
1-Nitropentane
Pentyl alcohol, nitrite
Pentyl nitrite
CAS #: 463-04-7
RTECS # RA1140000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: For manufacturing or laboratory use only.
Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000.

Order Online At: <https://www.spectrumchemical.com>

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person: Martin LaBenz (West Coast)

Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

| | |
|--------------------------------------|------------|
| Acute toxicity - Oral | Category 4 |
| Acute toxicity - Inhalation (Gases) | Category 4 |
| Acute toxicity - Inhalation (Vapors) | Category 4 |
| Flammable liquids | Category 2 |

Label elements

Danger

Hazard statements

Harmful if swallowed
Harmful if inhaled

Product code: A1426

Product name: Amyl Nitrite

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Highly flammable liquid and vapor



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/./? /equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Do not eat, drink or smoke when using this product
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Keep container tightly closed

Precautionary Statements - Response

Call a POISON CENTER or doctor/physician if you feel unwell

IN CASE OF FIRE: Use dry chemical, water spray, alcohol-resistant foam or CO₂ to extinguish.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF SWALLOWED: Rinse mouth.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS-No. | Weight % |
|--------------|----------|----------|
| Amyl Nitrite | 463-04-7 | 100 |

4. FIRST AID MEASURES

First aid measures

General Advice:

National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

Skin Contact:

Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact:

Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms May cause skin irritation. May cause eye irritation. May cause respiratory irritation. Harmful by inhalation and if swallowed.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO₂). Water spray, mist, or foam.

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon Oxides. Nitrogen Oxides.

Specific hazards: Highly flammable
May be ignited by heat, sparks or flames
Vapor may travel considerable distance to source of ignition and flash back
Vapors may form explosive mixtures with air
Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks)
Container explosion may occur under fire conditions or when heated
Fire may produce irritating and/or toxic gases

Special Protective Actions for Firefighters

Specific Methods: Water mist may be used to cool closed containers. For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a suitable chemical waste container. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use only non-sparking tools. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Take precautionary measures against static discharges. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Store in a segregated and approved area. Store away from incompatible materials. Protect from light. Sensitive to light. Store in light-resistant containers. Air sensitive. Moisture sensitive. Protect from moisture. Heat sensitive. Keep refrigerated. Keep at temperatures between 2 and 8 °C. Store under inert gas. Packed under Argon.

Incompatible Materials:

Oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

| Components | CAS-No. | OSHA | NIOSH | ACGIH | AIHA WHEEL |
|------------|---------|------|-------|-------|------------|
|------------|---------|------|-------|-------|------------|

| | | | | | |
|--------------|----------|------|------|------|------|
| Amyl Nitrite | 463-04-7 | None | None | None | None |
|--------------|----------|------|------|------|------|

Canada

| Components | CAS-No. | Canada - Alberta | Canada - British Columbia | Canada - Ontario | Canada - Quebec |
|--------------|----------|------------------|---------------------------|------------------|-----------------|
| Amyl Nitrite | 463-04-7 | None | None | None | None |

Australia and Mexico

| Components | CAS-No. | Australia | Mexico |
|--------------|----------|-----------|--------|
| Amyl Nitrite | 463-04-7 | None | None |

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation, especially in confined areas. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

| | |
|----------------------------------|--|
| Eye protection: | Goggles |
| Skin and body protection: | Gloves. Long sleeved clothing. Chemical resistant apron. |
| Respiratory protection: | Vapor respirator. Be sure to use an approved/certified respirator or equivalent. |
| Hygiene measures: | Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|--|--|
| Physical state: Liquid | Appearance: Clear. | Color: Pale Yellow. Yellow. |
| Odor: Pungent. | Taste No information available. | Formula: C5H11NO2 |
| Molecular/Formula weight: 117.15 | Flammability: Highly Flammable | Flashpoint (°C/°F): -18°C (0°F) |
| Flash Point Tested according to: Closed cup | Autoignition Temperature (°C/°F): 210°C (410°F) | Lower Explosion Limit (%): 1% |
| Upper Explosion Limit (%): No information available | Melting point/range(°C/°F): No information available | Decomposition temperature(°C/°F): No information available |
| Boiling point/range(°C/°F): 104°C (219°F) | Bulk density: No information available | Density (g/cm3): 0.88 |
| Specific gravity: No information available | pH: No information available | Vapor pressure @ 20°C (kPa): No information available |
| Evaporation rate: No information available | Vapor density: 4.0 | VOC content (g/L): No information available |

Odor threshold (ppm):
No information available

**Partition coefficient
(n-octanol/water):**
No information available

Viscosity:
No information available

Miscibility:
Miscible with Ether
Miscible with Chloroform
Miscible with Ethanol

Solubility:
Very slightly soluble in water
Decomposes in water

10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents

Chemical stability

Stability: Sensitive to light. Sensitive to air. Moisture Sensitive. Heat sensitive. Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Avoid excessive heat and light. Ignition sources. Incompatible materials. Exposure to light. Exposure to air. Exposure to moisture.

Incompatible Materials: Oxidizing agents

Hazardous decomposition products: Carbon oxides. Nitrogen oxides (NOx).

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Eyes. Ingestion. Inhalation.

Acute Toxicity

Component Information

| | |
|--------------|----------|
| Amyl Nitrite | |
| CAS-No. | 463-04-7 |

LD50/oral/rat = No information available

LD50/oral/mouse = No information available

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =
Value - Acute Tox Oral = No information available

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat
VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation Harmful if inhaled. Material is destructive to tissue of the mucous membranes and upper respiratory tract. Symptoms include coughing, shortness of breath, headache, and nausea.

Ingestion Harmful if swallowed. May cause digestive (gastrointestinal) tract irritation. May cause digestive (gastrointestinal) tract burns.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

| Components | CAS-No. | IARC | ACGIH - Carcinogens | NTP | OSHA HCS - Carcinogens | Australia - Notifiable Carcinogenic Substances | Australia - Prohibited Carcinogenic Substances |
|--------------|----------|------------|---------------------|------------|------------------------|--|--|
| Amyl Nitrite | 463-04-7 | Not listed | Not listed | Not listed | Not listed | Not listed | Not listed |

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Product code: A1426

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Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure No information available.
STOT - repeated exposure No information available.
Target Organs: No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

| Components | CAS-No. | RCRA - F Series Wastes | RCRA - K Series Wastes | RCRA - P Series Wastes | RCRA - U Series Wastes |
|--------------|----------|---------------------------|---------------------------|---------------------------|---------------------------|
| Amyl Nitrite | 463-04-7 | None | None | None | None |

14. TRANSPORT INFORMATION

DOT

UN-No: UN1113
Proper Shipping Name: Amyl nitrite
Hazard Class: 3
Subsidiary Class No information available
Packing group: II
Emergency Response Guide Number 129
Marine Pollutant No data available
DOT RQ (lbs): No information available
Special Provisions IB2, T4, TP1
Symbol(s): No information available
Description: UN1113, Amyl nitrite, 3, II

TDG (Canada)

UN-No: UN1113
Proper Shipping Name: Amyl nitrite

Hazard Class: 3
Subsidiary Risk: 3
Packing Group: II
Marine Pollutant Description: No Information available
 UN1113, Amyl nitrite, 3, II

ADR

UN-No: UN1113
Proper Shipping Name: Amyl nitrite
Hazard Class: 3
Packing Group: II
Subsidiary Risk: 3
Description: UN1113, Amyl nitrite, 3, II

IMO / IMDG

UN-No: UN1113
Proper Shipping Name: Butyl mercaptan
 Flammable liquids, n.o.s. (3-Methylthiophene)
 Amyl nitrite
Hazard Class: 3
Subsidiary Risk: 3
Packing Group: II
Marine Pollutant No information available
EMS: F-E
Description UN1113, Amyl nitrite, 3, II

RID

UN-No: UN1113
Proper Shipping Name: Amyl nitrite
Hazard Class: 3
Subsidiary Risk: 3
Packing Group: II
Description: UN1113, Amyl nitrite, 3, II

ICAO

UN-No: UN1113
Proper Shipping Name: Amyl nitrite
Hazard Class: 3
Subsidiary Risk: 3
Packing Group: II
Description: UN1113, Amyl nitrite, 3, II

IATA

UN-No: UN1113
Proper Shipping Name: Amyl nitrite
Hazard Class: 3
Subsidiary Risk: 3
Packing Group: II
ERG Code: 3H
Special Provisions No information available
Description: UN1113, Amyl nitrite, 3, II

15. REGULATORY INFORMATION

International Inventories

| Components | CAS-No. | U.S. TSCA | KOREA KECL | Philippines (PICCS) | Japan ENCS | CHINA | Australia (AICS) | EINECS-No. |
|--------------|----------|-----------|-------------|---------------------|-------------|---------|------------------|------------|
| Amyl Nitrite | 463-04-7 | Present | Not present | Present | Not present | Present | Present | Present |

| | | | | | | | |
|--|--|--|--|--|--|--|-----------|
| | | | | | | | 207-332-7 |
|--|--|--|--|--|--|--|-----------|

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

| Components | CAS-No. | Carcinogen | Developmental Toxicity | Male Reproductive Toxicity | Female Reproductive Toxicity: |
|--------------|----------|------------|------------------------|----------------------------|-------------------------------|
| Amyl Nitrite | 463-04-7 | Not Listed | Not Listed | Not Listed | Not Listed |

CERCLA/SARA

| Components | CAS-No. | CERCLA - Hazardous Substances and their Reportable Quantities | Section 302 Extremely Hazardous Substances and TPQs | Section 302 Extremely Hazardous Substances and RQs | Section 313 - Chemical Category | Section 313 - Reporting de minimis |
|--------------|----------|---|---|--|---------------------------------|------------------------------------|
| Amyl Nitrite | 463-04-7 | None | None | None | None | None |

U.S. TSCA

| Components | CAS-No. | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) -Health and Safety Reporting |
|--------------|----------|---|--|
| Amyl Nitrite | 463-04-7 | Not Applicable | Not Applicable |

Canada

WHMIS hazard class:

B2 Flammable liquid

D2A Very toxic materials

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

| Components | CAS-No. | Canada (DSL) | Canada (NDSL) |
|--------------|----------|--------------|---------------|
| Amyl Nitrite | 463-04-7 | Not Listed | Present |

| Components | CAS-No. | CEPA Schedule I - Toxic Substances |
|--------------|----------|---|
| Amyl Nitrite | 463-04-7 | Not listed |
| Components | CAS-No. | CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting |
| Amyl Nitrite | 463-04-7 | Not listed |

EU Classification

R-phrases(s)

R11 - Highly flammable.

R20/22 - Harmful by inhalation and if swallowed.

S -phrase(s)

S16 - Keep away from sources of ignition - No smoking.

S24 - Avoid contact with skin.

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S46 - If swallowed, seek medical advice immediately and show this container or label.

| Components | CAS-No. | Classification | Concentration Limits: | Safety Phrases |
|--------------|----------|----------------------|-----------------------|----------------|
| Amyl Nitrite | 463-04-7 | F; R11 Xn; R20/22 | No information | |

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

F - Highly flammable.

Xn - Harmful.

F



Xn



16. OTHER INFORMATION

Preparation Date: 12/5/2016
Revision Date: Not Applicable
Prepared by: Roumann Pangilinan

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet