SAFETY DATA SHEET
ZED N50

Section 1. Identification

GHS product identifier : ZED N50
CAS number : 628-63-7
Other means of identification : Not available.
Product code : Z02700
Product use : Electronic applications

Supplier's details : Zeon Specialty Materials Inc.
25 Metro Drive #238
San Jose, CA 95110
USA
Phone : +1-408-641-7889
FAX : +1-408-516-9382

e-mail address of person responsible for this SDS : Mark Nakamura: mark.nakamura@zeonsmi.com
Chris Chen: chris.chen@zeonsmi.com

Emergency telephone number (with hours of operation) : CHEMTREC: 1-800-424-9300 (24 hours a day/7 days per week)
Outside the United States (Call Collect): 001-703-527-3887

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 3
EYE IRRITATION - Category 2B
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS)) - Category 1

GHS label elements
Hazard pictograms : 

Signal word : Danger
Hazard statements : Flammable liquid and vapor.
Causes eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS))

Precautionary statements

Date of issue/Date of revision : 01/04/2018
Date of previous issue : 06/22/2016
Version : 3
Section 2. Hazards identification

Prevention: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools.
Take precautionary measures against static discharge.
Keep container tightly closed.
Use only outdoors or in a well-ventilated area.
Do not breathe vapor.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.

Response: Get medical attention if you feel unwell.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage: Store locked up.
Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements: Repeated exposure may cause skin dryness or cracking.

Hazard not otherwise classified: None known.

Section 3. Composition/information on ingredients

Substance/mixture: Substance
Other means of identification: Not available.
Product code: Z02700

CAS number/other identifiers:
CAS number: 628-63-7

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Amyl acetate (Pentyl acetate)</td>
<td>~100</td>
<td>628-63-7</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. If eye irritation persists, get medical advice/attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms appear.

Skin contact: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get medical attention if irritation develops. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Section 4. First aid measures

**Ingestion**
- Call a POISON CENTER or doctor. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

**Most important symptoms/effects, acute and delayed**

**Potential acute health effects**
- **Eye contact**: Causes eye irritation.
- **Inhalation**: May cause respiratory irritation. Can cause central nervous system (CNS) depression. CNS symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and nausea.
- **Skin contact**: No known significant effects or critical hazards.
- **Ingestion**: Can cause central nervous system (CNS) depression.

**Over-exposure signs/symptoms**
- **Eye contact**: Adverse symptoms may include the following:
  - irritation
  - watering
  - redness
- **Inhalation**: Adverse symptoms may include the following:
  - respiratory tract irritation
  - coughing
  - nausea or vomiting
  - headache
  - drowsiness/fatigue
  - dizziness/vertigo
  - unconsciousness
- **Skin contact**: Repeated exposure may cause skin dryness or cracking.
- **Ingestion**: No specific data.

**Indication of immediate medical attention and special treatment needed, if necessary**
- **Notes to physician**: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- **Specific treatments**: No specific treatment.
- **Protection of first-aiders**: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

**Section 5. Fire-fighting measures**

**Extinguishing media**
- **Suitable extinguishing media**
  - SMALL FIRE: Use water spray, dry chemical or carbon dioxide to extinguish.
  - LARGE FIRE: Use aqueous foam or water fog.
  - Use water spray to keep fire-exposed containers cool.
- **Unsuitable extinguishing media**: Do not use water jet.

**Specific hazards arising from the chemical**
- Flammable liquid and vapor. Keep away from heat, sparks and flame. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. In case of fire irritating, corrosive and/or toxic gases can be formed.
Section 5. Fire-fighting measures

- **Hazardous thermal decomposition products**: In a fire, decomposition may produce toxic gases/fumes. See Section 10 for information on decomposition products.

- **Special protective actions for fire-fighters**: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

- **Special protective equipment for fire-fighters**: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

  - **For non-emergency personnel**: Flammable liquid and vapor. No action shall be taken involving any personal risk or without suitable training. Wear protective gloves/clothing and eye/face protection. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wash hands thoroughly after handling. Remove contaminated clothing and wash it before reuse.

  - **For emergency responders**: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- **Environmental precautions**: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

- **Methods and materials for containment and cleaning up**

  - **Small spill**: Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Contain and collect spillage. Absorb remainder with an inert material and place in an appropriate waste disposal container. Wash spill area with soap and water.

  - **Large spill**: Stop leak if without risk. Keep unnecessary personnel away. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage. For large spills, a suppression foam is recommended to minimize evolution of vapors. Soak up remainder with a non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. Wash spill area with soap and water.

Section 7. Handling and storage

- **Precautions for safe handling**

  - **Protective measures**: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous.

  Flammable liquid. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.
Section 7. Handling and storage

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resaled and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Amyl acetate (Pentyl acetate)</td>
<td>NIOSH REL (United States, 10/2016). TWA: 100 ppm 10 hours. TWA: 525 mg/m³ 10 hours. ACGIH TLV (United States, 3/2017). TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. OSHA PEL (United States, 6/2016). TWA: 100 ppm 8 hours. TWA: 525 mg/m³ 8 hours.</td>
</tr>
</tbody>
</table>

Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Eye/face protection: Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. Wash hands thoroughly after handling.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Wear work clothing with long sleeves. Remove contaminated clothing and wash it before reuse. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Section 8. Exposure controls/personal protection

Respiratory protection: A NIOSH approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, during equipment malfunction, or product hangup or stagnation during processing that may result in decomposition.

Section 9. Physical and chemical properties

Appearance
Physical state: Liquid.
Color: Colorless.
Odor: Banana.
Odor threshold: 0.1 to 1 ppm (Literature)
pH: Not available.
Melting point: -71°C (-95.8°F)
Boiling point: 149°C (300.2°F)
Flash point: Closed cup: 25°C (77°F)
Evaporation rate: 0.42 (butyl acetate = 1)
Flammability (solid, gas): Not available.
Lower and upper explosive (flammable) limits: Lower: 1.1% Upper: 7.5%
Vapor pressure: 1.3 kPa (9.7 mm Hg) [25°C (77°F)]
Vapor density: 4.5 [Air = 1]
Relative density: 0.877 [water = 1]
Solubility: Not available.
Solubility in water: 0 to 1%
Partition coefficient: n-octanol/water: Not available.
Auto-ignition temperature: 378.9°C (714°F)
Decomposition temperature: Not available.
Viscosity: Not applicable.

Section 10. Stability and reactivity

Reactivity: Under normal conditions of storage and use, hazardous polymerization will not occur.
Chemical stability: Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions: No specific data.
Conditions to avoid: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Take precautionary measures against static discharge. Do not allow vapor to accumulate in low or confined areas.
Incompatible materials: Reactive or incompatible with the following materials: oxidizing materials strong acids strong alkalies
Section 10. Stability and reactivity

Hazardous decomposition products: Decomposition products may include the following materials:
carbon monoxide
carbon dioxide
acetic acid

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
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<tbody>
<tr>
<td>n-Amyl acetate (Pentyl acetate)</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;16000 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Conclusion/Summary: Based on available data, the classification criteria are not met.

Irritation/Corrosion

Conclusion/Summary Eyes: Causes eye irritation. (Based on available information from supplier(s) using the calculation method.)

Sensitization

Conclusion/Summary: Not available.

Mutagenicity

Conclusion/Summary: Not available.

Carcinogenicity

Conclusion/Summary: Not available.

Reproductive toxicity

Conclusion/Summary: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
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<tr>
<td>n-Amyl acetate (Pentyl acetate)</td>
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<td>Not applicable.</td>
<td>Respiratory tract irritation and Narcotic effects</td>
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</table>

Specific target organ toxicity (repeated exposure)

<table>
<thead>
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<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
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</thead>
<tbody>
<tr>
<td>n-Amyl acetate (Pentyl acetate)</td>
<td>Category 1</td>
<td>Not determined</td>
<td>central nervous system (CNS) (Based on available information from supplier(s) using the calculation method.)</td>
</tr>
</tbody>
</table>

Aspiration hazard

Not available.

Information on the likely routes of exposure: Routes of entry anticipated: Oral, Dermal, Inhalation, Ocular.

Potential acute health effects

Eye contact: Causes eye irritation.
Section 11. Toxicological information

Inhalation : May cause respiratory irritation. Can cause central nervous system (CNS) depression. CNS symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and nausea.

Skin contact : No known significant effects or critical hazards.

Ingestion : Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following: irritation, watering, redness.

Inhalation : Adverse symptoms may include the following: respiratory tract irritation, coughing, nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness.

Skin contact : Repeated exposure may cause skin dryness or cracking.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General : Causes damage to organs through prolonged or repeated exposure.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.
**Section 12. Ecological information**

**Toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Amyl acetate (Pentyl acetate)</td>
<td>Acute LC50 65 mg/l Fresh water</td>
<td>Fish - Gambusia affinis - Adult</td>
<td>96 hours</td>
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**Persistence and degradability**

**Conclusion/Summary**: Not available.

**Bioaccumulative potential**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogPow</th>
<th>BCF</th>
<th>Potential</th>
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<tr>
<td>n-Amyl acetate (Pentyl acetate)</td>
<td>2.3</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>

**Mobility in soil**

- **Soil/water partition coefficient \(K_{OC}\)**: Not available.
- **Mobility**: Not available.
- **Other adverse effects**: No known significant effects or critical hazards.

**Section 13. Disposal considerations**

**Disposal methods**: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Section 14. Transport information**

<table>
<thead>
<tr>
<th></th>
<th>DOT Classification</th>
<th>TDG Classification</th>
<th>Mexico Classification</th>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
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<tr>
<td>UN proper shipping name</td>
<td>Amyl acetates</td>
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<td>Packing group</td>
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</table>
Section 14. Transport information

### Environmental hazards

<table>
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<tr>
<th></th>
<th>No.</th>
<th>No.</th>
<th>-</th>
<th>Marine Pollutant: No</th>
<th>No.</th>
</tr>
</thead>
</table>

**Additional information**

- **DOT Classification**: Reportable quantity: 5000 lbs / 2270 kg [683.77 gal / 2588.4 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
  - **Limited quantity**: Yes.
  - **Quantity limitation**: Passenger aircraft/rail: 60 L. Cargo aircraft: 220 L.
  - **Special provisions**: B1, IB3, T2, TP1

- **TDG Classification**: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).
  - **Explosive Limit and Limited Quantity Index**: 5
  - **Passenger Carrying Road or Rail Index**: 60

- **IMDG**: Emergency schedules F-E, S-D


- **Special precautions for user**: Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

- **Transport in bulk according to Annex II of MARPOL and the IBC Code**: Not available.

Section 15. Regulatory information

- **U.S. Federal regulations**
  - **Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)**: Not listed
  - **Clean Air Act Section 602 Class I Substances**: Not listed
  - **Clean Air Act Section 602 Class II Substances**: Not listed
  - **DEA List I Chemicals (Precursor Chemicals)**: Not listed
  - **DEA List II Chemicals (Essential Chemicals)**: Not listed
  - **TSCA 8(a) PAIR**: n-Amyl acetate (Pentyl acetate)
  - **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined
  - **Clean Water Act (CWA) 311**: n-Amyl acetate (Pentyl acetate)

- **SARA 302/304**
  - **Composition/information on ingredients**: No products were found.
  - **SARA 304 RQ**: Not applicable.
  - **SARA 311/312**: Not applicable.
Section 15. Regulatory information

**Classification**

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Amyl acetate (Pentyl acetate)</td>
<td>~100</td>
<td>FLAMMABLE LIQUIDS - Category 3 EYE IRRITATION - Category 2B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS)) - Category 1</td>
</tr>
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</table>

**State regulations**

<table>
<thead>
<tr>
<th>State</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>Massachusetts</td>
<td>The following components are listed: N-AMYL ACETATE; AMYL ACETATE</td>
</tr>
<tr>
<td>New York</td>
<td>The following components are listed: Amyl acetate</td>
</tr>
<tr>
<td>New Jersey</td>
<td>The following components are listed: n-AMYL ACETATE; 1-PENTYL ACETATE</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>The following components are listed: ACETIC ACID, PENTYL ESTER; PENT-ACETATE</td>
</tr>
</tbody>
</table>

**International regulations**

- Chemical Weapon Convention List Schedules I, II & III Chemicals
  - Not listed.
- Montreal Protocol (Annexes A, B, C, E)
  - Not listed.
- Stockholm Convention on Persistent Organic Pollutants
  - Not listed.
- Rotterdam Convention on Prior Informed Consent (PIC)
  - Not listed.
- UNECE Aarhus Protocol on POPs and Heavy Metals
  - Not listed.

**Inventory list**

<table>
<thead>
<tr>
<th>Country</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Canada</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>China</td>
<td>All components are listed or exempted.</td>
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<tr>
<td>Europe</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Japan</td>
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<tr>
<td>Japan inventory (ENCS):</td>
<td>All components are listed or exempted.</td>
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<td>Japan inventory (ISHL):</td>
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<tr>
<td>Republic of Korea</td>
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<td>Taiwan</td>
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<td>Turkey</td>
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<tr>
<td>United States</td>
<td>All components are listed or exempted.</td>
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</tbody>
</table>
Section 16. Other information

Hazardous Material Information System (U.S.A.), Fourth Edition

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAMMABLE LIQUIDS - Category 3</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>EYE IRRITATION - Category 2B</td>
<td>Calculation method</td>
</tr>
<tr>
<td>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)</td>
<td>Calculation method</td>
</tr>
<tr>
<td>(Respiratory tract irritation)</td>
<td></td>
</tr>
<tr>
<td>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)</td>
<td></td>
</tr>
<tr>
<td>(Narcotic effects)</td>
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<td>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)</td>
<td></td>
</tr>
<tr>
<td>(central nervous system (CNS)) - Category 1</td>
<td>Calculation method</td>
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Procedure used to derive the classification

<table>
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<th>Date of printing</th>
<th>: 01/04/2018</th>
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<td>Date of issue/Date of revision</td>
<td>: 01/04/2018</td>
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<td>: 06/22/2016</td>
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<td>Version</td>
<td>: 3</td>
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<td>Key to abbreviations</td>
<td>: ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor DOT = Department of Transportation GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973</td>
</tr>
</tbody>
</table>
Section 16. Other information

as modified by the Protocol of 1978. ("Marpol" = marine pollution)
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
TDG = Transportation of Dangerous Goods
UN = United Nations

References : Not available.

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