

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixtures  
Product name : NARK20030 Psilocybin Reagent  
Product code : NARK20030

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Laboratory chemical

#### 1.3. Supplier

SIRCHIE  
100 Hunter Place  
Youngsville, NC 27596 - USA  
T 919-554-2244; 800-356-7311 - F 919-554-2266; 800-899-8181  
<http://www.sirchie.com>

#### 1.4. Emergency telephone number

Emergency number : 1.800.424.9300  
CHEMTREC: 1.800.424.9300

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

|   |      |   |
|---|------|---|
| Flammable liquids<br>Category 2                                   | H225 | Highly flammable liquid and vapor       |
| Skin corrosion/irritation<br>Category 1B                          | H314 | Causes severe skin burns and eye damage |
| Specific target organ<br>toxicity (single exposure)<br>Category 3 | H335 | May cause respiratory irritation        |

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS02

GHS05

GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor  
H314 - Causes severe skin burns and eye damage  
H335 - May cause respiratory irritation

Precautionary statements (GHS-US) : P210 - Keep away from heat/sparks/open flames/hot surfaces. - 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  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P264 - Wash hands, forearms and face thoroughly after handling  
P271 - Use only outdoors or in a well-ventilated area  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

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lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a poison center/doctor/...  
P312 - Call a poison center/doctor/... if you feel unwell  
P321 - Specific treatment (see ... on this label)  
P363 - Wash contaminated clothing before reuse  
P370+P378 - In case of fire: Use media other than water to extinguish  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed  
P403+P235 - Store in a well-ventilated place. Keep cool  
P405 - Store locked up  
P501 - Dispose of contents/container to ...

### 2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : These chemicals, as used in our chemical field test reagents, are in diluted and minimal concentrations and should not be harmful to users who adhere to good chemical handling hygiene.

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                            | Product identifier | %    | GHS-US classification                  |
|---------------------------------|--------------------|------|--|
| NARK20030B Psilocybin Reagent B |                    | 50   | Skin Corr. 1B, H314<br>STOT SE 3, H335 |
| ethanol                         | (CAS No) 64-17-5   | 47.5 | Flam. Liq. 2, H225                     |
| 4-dimethylaminobenzaldehyde     | (CAS No) 100-10-7  | 2.5  | Acute Tox. 4 (Oral), H302              |

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).  
First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.  
First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.  
First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.  
First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry chemical powder. Foam. Sand.  
Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Flammable.  
Explosion hazard : No data available on direct explosion hazard.  
Reactivity : No data available.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Exercise caution when fighting any chemical fire.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### NARK20030B Psilocybin Reagent B

Not applicable

##### 4-dimethylaminobenzaldehyde (100-10-7)

Not applicable

##### ethanol (64-17-5)

ACGIH

ACGIH STEL (ppm)

1000 ppm (Ethanol; USA; Short time value; TLV - Adopted Value)

#### 8.2. Appropriate engineering controls

No additional information available

#### 8.3. Individual protection measures/Personal protective equipment

##### Personal protective equipment:

Gloves. Safety glasses.

##### Hand protection:

Wear protective gloves

##### Eye protection:

Chemical goggles or safety glasses

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### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                            |
|---|----------------------------|
| Physical state                              | : Liquid                   |
| Appearance                                  | : Clear, colorless liquid. |
| Color                                       | : clear Colorless          |
| Odor  | : Alcohol odour            |
| Odor threshold                              | : No data available        |
| pH  | : No data available        |
| Melting point                               | : No data available        |
| Freezing point                              | : No data available        |
| Boiling point                               | : No data available        |
| Flash point                                 | : No data available        |
| Relative evaporation rate (butyl acetate=1) | : No data available        |
| Flammability (solid, gas)                   | : Non flammable.           |
| Vapor pressure                              | : No data available        |
| Relative vapor density at 20 °C             | : No data available        |
| Relative density                            | : No data available        |
| Solubility                                  | : Soluble in water.        |
| Log Pow                                     | : No data available        |
| Auto-ignition temperature                   | : No data available        |
| Decomposition temperature                   | : No data available        |
| Viscosity, kinematic                        | : No data available        |
| Viscosity, dynamic                          | : No data available        |
| Explosion limits                            | : No data available        |
| Explosive properties                        | : No data available        |
| Oxidizing properties                        | : No data available        |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Sparks.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| <b>4-dimethylaminobenzaldehyde (100-10-7)</b> |                           |
|---|---------------------------|
| ATE US (oral)                                 | 500.000 mg/kg body weight |

| <b>ethanol (64-17-5)</b> |  |
|--------------------------|--|
| LD50 oral rat            | 10740 mg/kg body weight (Rat; OECD 401: Acute Oral Toxicity; Experimental value) |
| LD50 dermal rabbit       | > 16000 mg/kg (Rabbit; Literature study)   |

Skin corrosion/irritation : Causes severe skin burns and eye damage.  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Based on available data, the classification criteria are not met  
Carcinogenicity : Not classified

| <b>ethanol (64-17-5)</b> |  |
|--------------------------|--|
| Additional information   | Ethyl alcohol (200 Proof) has been shown to cause cancer in Human and Animals when ingested in volume over time. There is no link to cancer in limited exposure scenarios. |
| IARC group               | 1 - Carcinogenic to humans   |

Reproductive toxicity : Not classified  
Based on available data, the classification criteria are not met  
STOT-single exposure : May cause respiratory irritation.  
STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified  
Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1. Toxicity

| <b>4-dimethylaminobenzaldehyde (100-10-7)</b> |                        |
|---|------------------------|
| LC50 fish 1                                   | 45.7 mg/l (LC50; 96 h) |

| <b>ethanol (64-17-5)</b> |  |
|--------------------------|--|
| LC50 fish 1              | 14200 mg/l (LC50; US EPA; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value) |

#### 12.2. Persistence and degradability

| <b>NARK20030 Psilocybin Reagent</b> |                  |
|-------------------------------------|------------------|
| Persistence and degradability       | Not established. |

| <b>NARK20030B Psilocybin Reagent B</b> |                  |
|--|------------------|
| Persistence and degradability          | Not established. |

| <b>4-dimethylaminobenzaldehyde (100-10-7)</b> |   |
|---|---|
| Persistence and degradability                 | Biodegradability in water: no data available. |

| <b>ethanol (64-17-5)</b>        |   |
|---------------------------------|---|
| Persistence and degradability   | Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil. |
| Biochemical oxygen demand (BOD) | 0.8 - 0.967 g O <sub>2</sub> /g substance   |
| Chemical oxygen demand (COD)    | 1.7 g O <sub>2</sub> /g substance   |
| ThOD                            | 2.1 g O <sub>2</sub> /g substance   |
| BOD (% of ThOD)                 | 0.43  |

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### 12.3. Bioaccumulative potential

| NARK20030 Psilocybin Reagent           |  |
|--|--|
| Bioaccumulative potential              | Not established.   |
| NARK20030B Psilocybin Reagent B        |  |
| Bioaccumulative potential              | Not established.   |
| 4-dimethylaminobenzaldehyde (100-10-7) |  |
| Log Pow                                | 1.81   |
| Bioaccumulative potential              | Low potential for bioaccumulation (Log Kow < 4).                               |
| ethanol (64-17-5)                      |  |
| BCF fish 1                             | 1 (BCF; Other; 72 h; Cyprinus carpio; Static system; Fresh water; Read-across) |
| Log Pow                                | -0.31 (Experimental value)   |
| Bioaccumulative potential              | Low potential for bioaccumulation (Log Kow < 4).                               |

### 12.4. Mobility in soil

| ethanol (64-17-5) |                                    |
|-------------------|------------------------------------|
| Surface tension   | 0.022 N/m (20 °C)                  |
| Log Koc           | Koc,PCKOCWIN v1.66; 1; Read-across |

### 12.5. Other adverse effects

|                              |                                       |
|------------------------------|---------------------------------------|
| Effect on the global warming | : No known effects from this product. |
| GWPmix comment               | : No known effects from this product. |
| Other information            | : Avoid release to the environment.   |

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

|  |   |
|--|---|
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. |
| Ecology - waste materials                  | : Avoid release to the environment.                                       |

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

|                                |   |
|--------------------------------|---|
| Transport document description | : UN3316 Chemical kits, 9, II                                   |
| UN-No.(DOT)                    | : UN3316  |
| Proper Shipping Name (DOT)     | : Chemical kits   |
| Class (DOT)                    | : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140 |
| Packing group (DOT)            | : II - Medium Danger  |
| Hazard labels (DOT)            | : 9 - Class 9 (Miscellaneous dangerous materials)               |



|   |        |
|---|--------|
| DOT Packaging Non Bulk (49 CFR 173.xxx) | : 161  |
| DOT Packaging Bulk (49 CFR 173.xxx)     | : None |

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|  |   |
|--|---|
| DOT Special Provisions (49 CFR 172.102)                          | : 15 - This entry applies to Chemical kits and First aid kits containing one or more compatible items of hazardous materials in boxes, cases, etc. that are used for medical, analytical, diagnostic or testing purposes. For transportation by aircraft, materials forbidden for transportation by passenger aircraft or cargo aircraft may not be included in the kits. Chemical kits and first aid kits are excepted from the specification packaging requirements of this subchapter when packaged in combination packaging. Chemical kits and first aid kits are also excepted from the labeling and placarding requirements of this subchapter, except when offered for transportation or transported by air. Chemical and first aid kits may be transported in accordance with the consumer commodity and ORM exceptions in 173.156, provided they meet all required conditions. Kits that are carried on board transport vehicles for first aid or operating purposes are not subject to the requirements of this subchapter. |
| DOT Packaging Exceptions (49 CFR 173.xxx)                        | : 161   |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 10 kg   |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)     | : 10 kg   |
| DOT Vessel Stowage Location                                      | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.   |
| Other information  | : No supplementary information available.   |

### TDG

#### Transport by sea

|                                       |   |
|---------------------------------------|---|
| Transport document description (IMDG) | : UN 3316 CHEMICAL KIT, 9               |
| UN-No. (IMDG)                         | : 3316                                  |
| Proper Shipping Name (IMDG)           | : CHEMICAL KIT                          |
| Class (IMDG)                          | : 9 - Miscellaneous dangerous compounds |
| Limited quantities (IMDG)             | : SP251                                 |

#### Air transport

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| Transport document description (IATA) | : UN 3316 Chemical kit, 9, II       |
| UN-No. (IATA)                         | : 3316                              |
| Proper Shipping Name (IATA)           | : Chemical kit                      |
| Class (IATA)                          | : 9 - Miscellaneous Dangerous Goods |
| Packing group (IATA)                  | : II - Medium Danger                |

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### NARK20030 Psilocybin Reagent

Subject to reporting requirements of United States SARA Section 313  
Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### NARK20030B Psilocybin Reagent B

Subject to reporting requirements of United States SARA Section 313  
Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### National regulations

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### NARK20030 Psilocybin Reagent

Listed on IARC (International Agency for Research on Cancer)

### 15.3. US State regulations

#### NARK20030 Psilocybin Reagent

|   |     |
|---|-----|
| U.S. - California - Proposition 65 - Carcinogens List               | Yes |
| U.S. - California - Proposition 65 - Developmental Toxicity         | No  |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Female | No  |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Male   | No  |

## SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging. Keep in tightly closed container. Keep cool and dry. Avoid all ignition sources - heat, open flame, sparks. Avoid incompatible materials. Avoid dust creation and accumulation. Avoid inhalation and ingestion. Avoid contact with eyes. Wash thoroughly after handling.

Other information : None.

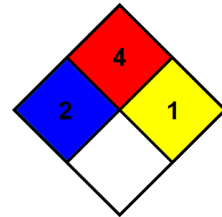
Full text of H-phrases:

|      |   |
|------|---|
| H225 | Highly flammable liquid and vapor       |
| H302 | Harmful if swallowed                    |
| H314 | Causes severe skin burns and eye damage |
| H335 | May cause respiratory irritation        |

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard : 4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn readily.

NFPA reactivity : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 4 Severe Hazard - Flammable gases, or very volatile flammable liquids with flash points below 73 F, and boiling points below 100 F. Materials may ignite spontaneously with air. (Class IA)

Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Personal Protection : G

G - Safety glasses, Gloves, Vapor respirator

SDS US (GHS HazCom 2012)

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.*