Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - Ireland

Date : 15/02/2019
Version : 3

## SAFETY DATA SHEET

## SatPax ® 9\% IPA / 91\% DI H2O

## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Product name
REACH Registration
: SatPax ® 9\% IPA / 91\% DI H2O
: 01-2119457558-25-0086 number

Product code : Not available.
Product description : Not available.
Product type
Other means of identification
: Solid.
: SPX1000.002.12, SPX3000.002.12, SPXC1000.002.12, SPXC1000.02.12R, SPXM1200.002.12, SPXMSVP0048, SPXMSVP00616, SPXV1500.002.12
1.2 Relevant identified uses of the substance or mixture and uses advised against
1.3 Details of the supplier of the safety data sheet

| Supplier's details | Berkshire Corporation |
| :--- | :--- |
|  | 21 River Street |
|  | Great Barrington, MA 01230, USA |
|  | Phone: 1-413-528-2602 |
|  | Toll Free: 1-800-242-7000 |
|  | Fax: 1-413-528-2614 |
|  | www.berkshire.com |

e-mail address of person
: GHS@berkshire.com
responsible for this SDS

### 1.4 Emergency telephone number

## National advisory body/Poison Centre

Telephone number

Emergency telephone number (with hours of operation)
: National Poisons Information Centre: 353 (1) 8092166 (8.00 a.m. to 10.00 p.m. 7 days a week). Healthcare Professionals: +353 (1)809 2566 (24 hour service)
: CHEMTREC, U.S. :+1-800-424-9300
International: +1-703-741-5970 24/7

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Product definition : Mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Flam. Sol. 2, H228
The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.
See Section 16 for the full text of the H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.
2.2 Label elements

Hazard pictograms


Signal word : Warning
Hazard statements : H228-Flammable solid.
Precautionary statements

| Prevention | : P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection. <br> P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| :---: | :---: |
| Response | : Not applicable. |
| Storage | Not applicable. |
| Disposal | Not applicable. |
| Supplemental label elements | Not applicable. |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : Not applicable. |
| Special packaging requirements |  |
| Containers to be fitted with child-resistant fastenings | : Not applicable. |
| Tactile warning of danger | Not applicable. |

### 2.3 Other hazards

Other hazards which do : None known. not result in classification

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## SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

| Product/ingredient name | Identifiers | \% | $\begin{gathered} \text { Regulation (EC) No. } \\ \text { 1272/2008 [CLP] } \end{gathered}$ | Type |
| :---: | :---: | :---: | :---: | :---: |
| Isopropyl alcohol | $\begin{aligned} & \text { REACH \#: 01-2119457558-25 } \\ & \text { EC: 200-661-7 } \\ & \text { CAS: } 67-63-0 \\ & \text { Index: } 603-117-00-0 \end{aligned}$ | 9 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 <br> See Section 16 for the full text of the H statements declared above. | [1] [2] |

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

## Type

[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
[5] Substance of equivalent concern
[6] Additional disclosure due to company policy
Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

| Eye contact | :Immediately flush eyes with plenty of water, occasionally lifting the upper and lower <br> eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 <br> minutes. Get medical attention if irritation occurs. |
| :--- | :--- |
| Inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. <br> If not breathing, if breathing is irregular or if respiratory arrest occurs, provide <br> artificial respiration or oxygen by trained personnel. It may be dangerous to the <br> person providing aid to give mouth-to-mouth resuscitation. Get medical attention if <br> adverse health effects persist or are severe. If unconscious, place in recovery <br> position and get medical attention immediately. Maintain an open airway. Loosen <br> tight clothing such as a collar, tie, belt or waistband. |
| : Flush contaminated skin with plenty of water. Get medical attention if symptoms |  |
| occur. |  |
| Skin contact | Wash out mouth with water. Remove dentures if any. Remove victim to fresh air <br> and keep at rest in a position comfortable for breathing. If material has been <br> swallowed and the exposed person is conscious, give small quantities of water to <br> drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not <br> induce vomiting unless directed to do so by medical personnel. If vomiting occurs, <br> the head should be kept low so that vomit does not enter the lungs. Get medical |
| attention if adverse health effects persist or are severe. Never give anything by |  |
| mouth to an unconscious person. If unconscious, place in recovery position and get |  |
| medical attention immediately. Maintain an open airway. Loosen tight clothing such |  |
| as a collar, tie, belt or waistband. |  |

### 4.2 Most important symptoms and effects, both acute and delayed

## Potential acute health effects

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## SECTION 4: First aid measures

| Inhalation | : No known significant effects or critical hazards. |
| :--- | :--- |
| Skin contact | : No known significant effects or critical hazards. |
| Ingestion | : No known significant effects or critical hazards. |

## Over-exposure signs/symptoms

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.
4.3 Indication of any immediate medical attention and special treatment needed

| Notes to physician | : Treat symptomatically. Contact poison treatment specialist immediately if large <br> quantities have been ingested or inhaled. |
| :--- | :--- |
| Specific treatments | $:$ No specific treatment. |

## SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing : Use dry chemical, $\mathrm{CO}_{2}$, water spray (fog) or foam.
media
Unsuitable extinguishing : Do not use water jet or water-based fire extinguishers. media

### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture
Hazardous combustion products
: Flammable solid.
: Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

### 5.3 Advice for firefighters

Special protective actions for fire-fighters

Special protective equipment 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.
: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

For non-emergency : No action shall be taken involving any personal risk or without suitable training. personnel

For emergency responders : If specialised 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".

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## SECTION 6: Accidental release measures


#### Abstract

6.2 Environmental : Inform the relevant authorities if the product has caused environmental pollution precautions (sewers, waterways, soil or air).


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

Spill : Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

### 6.4 Reference to other sections <br> : See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

## Protective measures

Advice on general occupational hygiene
: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. 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. Store and use away from heat, sparks, open flame or any other ignition source. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.
: 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. See also Section 8 for additional information on hygiene measures.

### 7.2 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. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

Recommendations : Not available.
Industrial sector specific : Not available.
solutions

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

## Occupational exposure limits

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## SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Exposure limit values |
| :--- | :--- |
| Isopropyl alcohol | NAOSH (Ireland, 3/2016). Absorbed through skin. <br> OELV-8hr: 200 ppm 8 hours. |
|  | OELV-15min: 400 ppm 15 minutes. |

Recommended monitoring procedures


#### Abstract

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.


## DNELs/DMELs

No DNELs/DMELs available.

## PNECs

No PNECs available

### 8.2 Exposure controls

Appropriate engineering controls
: Use only with adequate ventilation. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosionproof ventilation equipment.

## 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. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection : Recommended: Safety glasses.

## 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. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

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## SECTION 8: Exposure controls/personal protection

Other skin protection : 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.

## Respiratory protection

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

## SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Appearance |  |
| :---: | :---: |
| Physical state | Solid. [Solid containing liquid (prewetted wiper)] |
| Colour | White substrate with colourless liquid. |
| Odour | Rubbing alcohol. |
| Odour threshold | Not available. |
| pH | Not available. |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | Not available. |
| Flash point | Closed cup: $40^{\circ} \mathrm{C}$ |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and shocks and mechanical impacts. |
| Upper/lower flammability or explosive limits | Lower: 2\% <br> Upper: 12.7\% |
| Vapour pressure | : Not available. |
| Vapour density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | Insoluble in the following materials: cold water and hot water. |
| Partition coefficient: n-octanol/ water | Not available. |
| Auto-ignition temperature | : $399^{\circ} \mathrm{C}$ |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Explosive properties | Not available. |
| Oxidising properties | Not available. |

## SECTION 10: Stability and reactivity

10.1 Reactivity

### 10.2 Chemical stability

10.3 Possibility of hazardous reactions
: No specific test data related to reactivity available for this product or its ingredients.
: The product is stable.
: Under normal conditions of storage and use, hazardous reactions will not occur.

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## SECTION 10: Stability and reactivity

10.4 Conditions to avoid : Avoid all possible sources of ignition (spark or flame).
10.5 Incompatible materials : Highly reactive or incompatible with the following materials: oxidising materials.
10.6 Hazardous : Under normal conditions of storage and use, hazardous decomposition products decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

## Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
| :--- | :--- | :--- | :--- | :--- |
| Isopropyl alcohol | LD50 Dermal <br> LD50 Oral | Rabbit <br> Rat | $12800 \mathrm{mg} / \mathrm{kg}$ <br> $5000 \mathrm{mg} / \mathrm{kg}$ | - |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Isopropyl alcohol | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 mg | - |
|  | Eyes - Moderate irritant | Rabbit | - | 10 mg | - |
|  | Eyes - Severe irritant | Rabbit | - | 100 mg | - |
|  | Skin - Mild irritant | Rabbit | - | 500 mg | - |

## Sensitisation

> There is no data available.

## Mutagenicity

There is no data available.

## Carcinogenicity

There is no data available.

## Reproductive toxicity

There is no data available.

## Teratogenicity

There is no data available.
Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Target organs |
| :--- | :--- | :--- |
| Isopropyl alcohol | Category 3 | Narcotic effects |

## Specific target organ toxicity (repeated exposure)

There is no data available.

## Aspiration hazard

There is no data available.

Information on likely routes : Dermal contact. Eye contact. Inhalation. Ingestion.
of exposure

## Potential acute health effects

| Eye contact | $:$ No known significant effects or critical hazards. |
| :--- | :--- |
| Inhalation | $:$ No known significant effects or critical hazards. |
| Skin contact | $:$ No known significant effects or critical hazards. |
| Ingestion | $:$ No known significant effects or critical hazards. |

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## SECTION 11: Toxicological information

| Symptoms related to the physical, chemical and toxicological characteristics |  |
| :--- | :--- |
| Eye contact | $:$ No known significant effects or critical hazards. |
| Inhalation | $:$ No known significant effects or critical hazards. |
| Skin contact | $:$ No known significant effects or critical hazards. |
| Ingestion | $:$ No known significant effects or critical hazards. |

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

| Potential immediate <br> effects <br> Potential delayed effects | $:$ No known significant effects or critical hazards. |
| :--- | :--- |
| Long term exposure | No known significant effects or critical hazards. |
| Potential immediate <br> effects | No known significant effects or critical hazards. |
| Potential delayed effects | $:$ No known significant effects or critical hazards. |
| Potential chronic health effects |  |
| General | $:$ No known significant effects or critical hazards. |
| 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. |
| Other information | $:$ Not available. |

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
| :---: | :---: | :---: | :---: |
| Isopropyl alcohol | Acute EC50 10100 mg/L Fresh water Acute LC50 $1400000 \mu \mathrm{~g} / \mathrm{L}$ Marine water Acute LC50 4200 mg/L Fresh water | Daphnia - Daphnia magna Crustaceans - Crangon crangon Fish - Rasbora heteromorpha | 48 hours 48 hours 96 hours |

### 12.2 Persistence and degradability

There is no data available.

### 12.3 Bioaccumulative potential

| Product/ingredient name | LogP ${ }_{\text {ow }}$ | BCF | Potential |
| :--- | :--- | :--- | :--- |
| Isopropyl alcohol | 0.05 | - | low |

### 12.4 Mobility in soil

| Soil/water partition <br> coefficient (Koc) | : No data available. |
| :--- | :--- |
| Mobility | : Not available. |

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## SECTION 12: Ecological information

### 12.5 Results of PBT and vPvB assessment <br> PBT <br> : Not applicable. <br> vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

## Product

Methods of disposal

Hazardous waste

## Packaging

Methods of disposal

Special precautions
: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should 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.
: The classification of the product may meet the criteria for a hazardous waste.
: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. 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. Empty containers or liners may retain some product residues.

## SECTION 14: Transport information

|  | ADR/RID | ADN | IMDG | IATA |
| :--- | :--- | :--- | :--- | :--- |
| 14.1 UN number | UN3175 | UN3175 | UN3175 | UN3175 |
| 14.2 UN proper <br> shipping name | SOLIDS CONTAINING <br> FLAMMABLE LIQUID, N.O. <br> S. (Isopropyl alcohol) | SOLIDS CONTAINING <br> FLAMMABLE LIQUID, N.O. <br> S. (Isopropyl alcohol) | SOLIDS CONTAINING <br> FLAMMABLE LIQUID, N.O. <br> S. (Isopropyl alcohol) | SOLIDS CONTAINING <br> FLAMMABLE LIQUID, N.O. <br> S. (Isopropyl alcohol) |
| 14.3 Transport <br> hazard class(es) | 4.1 | 4.1 | 4.1 | 4.1 |
| 14.4 Packing <br> group | III | III | III | No. |
| 14.5 <br> Environmental <br> hazards | No. | No. | No. | No. |

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## SECTION 14: Transport information

$$
\begin{array}{ll}
\hline \text { 14.6 Special precautions for } \\
\text { user }
\end{array} \quad \begin{aligned}
& \text { Transport within user's premises: always transport in closed containers that are } \\
& \text { upright and secure. Ensure that persons transporting the product know what to do } \\
& \text { in the event of an accident. }
\end{aligned}
$$

## SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)
Annex XIV - List of substances subject to authorisation

## Annex XIV

None of the components are listed.

## Substances of very high concern

None of the components are listed.
Annex XVII-Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles
Other EU regulations
Ozone depleting substances (1005/2009/EU)
Not listed.
Prior Informed Consent (PIC) (649/2012/EU)
Not listed.
15.2 Chemical safety : This product contains substances for which Chemical Safety Assessments are still assessment required.

## SECTION 16: Other information

| ```Abbreviations and acronyms : ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative``` |  |  |
| :---: | :---: | :---: |
| Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS |  |  |
| Classification |  | Justification |
| Flam. Sol. 2, H228 |  | Expert judgment |

## Full text of abbreviated H statements

| H225 | Highly flammable liquid and vapour. |
| :--- | :--- |
| H228 | Flammable solid. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |

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## SECTION 16: Other information

## Full text of classifications [CLP/GHS]

Eye Irrit. 2, H319
Flam. Liq. 2, H225
Flam. Sol. 2, H228
STOT SE 3, H336

```
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
FLAMMABLE LIQUIDS - Category 2
FLAMMABLE SOLIDS - Category 2
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE
(Narcotic effects) - Category 3
```


## History

Date of issue (dd/mm/yyyy) : 15/02/2019
Date of previous issue : 30/04/2017
Version : 3
Prepared by : KMK Regulatory Services Inc.
Notice to reader
To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

