SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification

Product Description: 1-Methyl-2-pyrrolidinone
Cat No.: 368450000; 368450010; 368450025; 368451000
Synonyms 1-Methyl-2-pyrrolidone; N-Methylpyrrolidone; NMP
CAS-No. 872-50-4
EC-No. 212-828-1
Molecular Formula C5 H9 N O
Reach Registration Number 01-2119472430-46

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Laboratory chemicals.
Sector of use SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
Product category PC21 - Laboratory chemicals
Process categories PROC15 - Use as a laboratory reagent
Environmental release category ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates)
Uses advised against No Information available

1.3. Details of the supplier of the safety data sheet

Company
UK entity/business name Fisher Scientific UK
Bishop Meadow Road, Loughborough,
Leicestershire LE11 5RG, United Kingdom

EU entity/business name Acros Organics BVBA
Janssen Pharmaceuticaal 3a
2440 Geel, Belgium

E-mail address begel.sdsdesk@thermofisher.com

1.4. Emergency telephone number

For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11
Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99
CHEMTREC Tel. No.US:001-800-424-9300 / Europe:001-703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008
Physical hazards

Based on available data, the classification criteria are not met
SAFETY DATA SHEET

1-Methyl-2-pyrrolidinone

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Health hazards

Signal Word Danger

Hazard Statements
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H335 - May cause respiratory irritation
- H360D - May damage the unborn child

Combustible liquid

Precautionary Statements
- P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
- P337 + P313 - If eye irritation persists: Get medical advice/ attention
- P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
- P312 - Call a POISON CENTER or doctor/ physician if you feel unwell
- P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
- P332 + P313 - If skin irritation occurs: Get medical advice/ attention

Additional EU labelling

Restricted to professional users

2.3. Other hazards

No information available

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

3.1. Substances

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>EC-No.</th>
<th>Weight %</th>
<th>CLP Classification - Regulation (EC) No 1272/2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methyl-2-pyrrolidone</td>
<td>872-50-4</td>
<td>EEC No. 212-828-1</td>
<td>99</td>
<td>Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Repr. 1B (H360D) STOT SE 3 (H335)</td>
</tr>
</tbody>
</table>

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1-Methyl-2-pyrrolidinone

Reach Registration Number

01-2119472430-46

Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice
Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye Contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact
Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Ingestion
Do not induce vomiting. Call a physician or Poison Control Center immediately.

Inhalation
Move to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

Self-Protection of the First Aider
Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

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

None reasonably foreseeable. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician
Treat symptomatically. Symptoms may be delayed.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.

Extinguishing media which must not be used for safety reasons
No information available.

5.2. Special hazards arising from the substance or mixture

Combustible material. Containers may explode when heated. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NOx), peroxides.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full
protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Remove all sources of ignition. Take precautionary measures against static discharges.

6.2. **Environmental precautions**

Should not be released into the environment.

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

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition.

6.4. **Reference to other sections**

Refer to protective measures listed in Sections 8 and 13.

**SECTION 7: HANDLING AND STORAGE**

7.1. **Precautions for safe handling**

Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Use only under a chemical fume hood. Do not breathe vapors or spray mist. Do not ingest. Keep away from open flames, hot surfaces and sources of ignition.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

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

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Protect from light.

7.3. **Specific end use(s)**

Use in laboratories

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1. **Control parameters**

**Exposure limits**


<table>
<thead>
<tr>
<th>Component</th>
<th>The United Kingdom</th>
<th>European Union</th>
<th>Ireland</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methyl-2-pyrrolidone</td>
<td>STEL: 20 ppm 15 min</td>
<td>Possibility of significant</td>
<td>TWA: 10 ppm 8 hr.</td>
</tr>
</tbody>
</table>
1-Methyl-2-pyrrolidinone

Biological limit values
List source(s):

Monitoring methods
BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
MDHS70 General methods for sampling airborne gases and vapours

Derived No Effect Level (DNEL)  See table for values

<table>
<thead>
<tr>
<th>Route of exposure</th>
<th>Acute effects (local)</th>
<th>Acute effects (systemic)</th>
<th>Chronic effects (local)</th>
<th>Chronic effects (systemic)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td></td>
<td>208 mg/kg bw/day</td>
<td>80 mg/m³</td>
<td>19.8 mg/kg bw/day</td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Predicted No Effect Concentration (PNEC)  See values below.

| Fresh water           | 0.25 mg/l               |
| Fresh water sediment  | 0.805 mg/kg dw          |
| Marine water          | 0.025 mg/l              |
| Marine water sediment | 0.0805 mg/kg dw         |
| Water Intermittent    | 5 mg/l                  |
| Food chain            | 0.00167 g/kg            |
| Microorganisms in sewage treatment | 10 mg/l |
| Soil (Agriculture)    | 0.138 mg/kg             |

8.2. Exposure controls

Engineering Measures
Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment
Eye Protection  Goggles (European standard - EN 166)
Hand Protection  Protective gloves

<table>
<thead>
<tr>
<th>Glove material</th>
<th>Breakthrough time</th>
<th>Glove thickness</th>
<th>EU standard</th>
<th>Glove comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrile rubber</td>
<td>&lt; 30 minutes</td>
<td>0.38 mm</td>
<td>Level 2</td>
<td>Permeation rate 43 µg/cm²/min</td>
</tr>
<tr>
<td>Neoprene</td>
<td>&lt; 140 minutes</td>
<td>0.66 mm</td>
<td>Level 4</td>
<td>Permeation rate 19 µg/cm²/min</td>
</tr>
<tr>
<td>Butyl rubber</td>
<td>&gt; 480 minutes</td>
<td>0.50 mm</td>
<td>EN 374</td>
<td>As tested under EN374-3 Determination of Resistance to Permeation by Chemicals</td>
</tr>
</tbody>
</table>

Skin and body protection  Long sleeved clothing

Inspect gloves before use.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.
(Refer to manufacturer/supplier for information)
Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Remove gloves with care avoiding skin contamination.

Respiratory Protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly.

Large scale/emergency use
Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
**Recommended Filter type:** Organic gases and vapours filter Type A Brown conforming to EN14387

Small scale/Laboratory use
Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
**Recommended half mask:**- Valve filtering: EN405; or; Half mask: EN140; plus filter, EN 141
When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls
No information available.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Colorless</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild amine</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>7.7-8.0</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>-24 °C / -11.2 °F</td>
</tr>
<tr>
<td>Softening Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>202 °C / 395.6 °F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>91 °C / 195.8 °F</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid,gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosion Limits</td>
<td>Liquid</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>0.7 mbar @ 25 °C</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>3.4</td>
</tr>
<tr>
<td>Specific Gravity / Density</td>
<td>1.030</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Miscible</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No information available</td>
</tr>
<tr>
<td>Partition Coefficient (n-octanol/water)</td>
<td>1.00</td>
</tr>
<tr>
<td>Component</td>
<td>1-Methyl-2-pyrrolidone</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>346 °C / 654.8 °F</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>1.67 mPa s at 20 °C</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No information available</td>
</tr>
</tbody>
</table>

#### 9.2. Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular Formula</td>
<td>C5 H9 N O</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>99.13</td>
</tr>
</tbody>
</table>
SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
None known, based on information available

10.2. Chemical stability
Hygroscopic, Air sensitive, Light sensitive.

10.3. Possibility of hazardous reactions
Hazardous Polymerization: No information available.
Hazardous Reactions: None under normal processing.

10.4. Conditions to avoid
Incompatible products. Heat, flames and sparks. Exposure to air. Exposure to moist air or water. Exposure to light. Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials

10.6. Hazardous decomposition products

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information

(a) acute toxicity;
   Oral: Based on available data, the classification criteria are not met
   Dermal: Based on available data, the classification criteria are not met
   Inhalation: Based on available data, the classification criteria are not met

(b) skin corrosion/irritation; Category 2

(c) serious eye damage/irritation; Category 2

(d) respiratory or skin sensitization;
   Respiratory: Based on available data, the classification criteria are not met
   Skin: Based on available data, the classification criteria are not met

(e) germ cell mutagenicity;
   Based on available data, the classification criteria are not met
   Mutagenic effects have occurred in microorganisms

(f) carcinogenicity;
   Based on available data, the classification criteria are not met
   There are no known carcinogenic chemicals in this product

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 Oral (Animal)</th>
<th>LD50 Dermal (Animal)</th>
<th>LC50 Inhalation (Animal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methyl-2-pyrrolidone</td>
<td>LD50 = 3914 mg/kg (Rat)</td>
<td>LD50 = 8 g/kg (Rabbit)</td>
<td>LC50 &gt; 5.1 mg/L (Rat) 4 h</td>
</tr>
</tbody>
</table>
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1-Methyl-2-pyrrolidinone  Revision Date  26-Feb-2019

(g) reproductive toxicity;
Reproductive Effects  Category 1B
Experiments have shown reproductive toxicity effects on laboratory animals.
Developmental Effects  Substances known to cause developmental toxicity in humans. May cause harm to the unborn child.
Teratogenicity  Teratogenic effects have occurred in experimental animals.

(h) STOT-single exposure;
Results / Target organs  Respiratory system.

(i) STOT-repeated exposure;
Target Organs  None known.

(j) aspiration hazard;
Other Adverse Effects  Tumorigenic effects have been reported in experimental animals.

Symptoms / effects, both acute and delayed  Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting delayed

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity
Ecotoxicity effects

<table>
<thead>
<tr>
<th>Component</th>
<th>Freshwater Fish</th>
<th>Water Flea</th>
<th>Freshwater Algae</th>
<th>Microtox</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methyl-2-pyrrolidone</td>
<td>LC50: = 832 mg/L, 96h static (Lepomis macrochirus) LC50: = 1072 mg/L, 96h static (Pimephales promelas) LC50: = 1400 mg/L, 96h static (Poecilia reticulata) LC50: = 4000 mg/L, 96h static (Leuciscus idus)</td>
<td>EC50: = 4897 mg/L, 48h (Daphnia magna)</td>
<td>EC50: &gt; 500 mg/L, 72h (Desmodesmus subspicatus)</td>
<td></td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
Persistence  Persistence is unlikely.

12.3. Bioaccumulative potential  Bioaccumulation is unlikely

<table>
<thead>
<tr>
<th>Component</th>
<th>log Pow</th>
<th>Bioconcentration factor (BCF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methyl-2-pyrrolidone</td>
<td>-0.46</td>
<td>No data available</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil  The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility. Highly mobile in soils

12.5. Results of PBT and vPvB assessment  No data available for assessment.

12.6. Other adverse effects
Endocrine Disruptor Information  This product does not contain any known or suspected endocrine disruptors

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1-Methyl-2-pyrrolidinone

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Persistent Organic Pollutant
Ozone Depletion Potential
This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Products
Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

Contaminated Packaging
Dispose of this container to hazardous or special waste collection point.

European Waste Catalogue (EWC)
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Other Information
Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO
Not regulated

14.1. UN number
14.2. UN proper shipping name
14.3. Transport hazard class(es)
14.4. Packing group

ADR
Not regulated

14.1. UN number
14.2. UN proper shipping name
14.3. Transport hazard class(es)
14.4. Packing group

IATA
Not regulated

14.1. UN number
14.2. UN proper shipping name
14.3. Transport hazard class(es)
14.4. Packing group

14.5. Environmental hazards
No hazards identified

14.6. Special precautions for user
No special precautions required

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable, packaged goods

SECTION 15: REGULATORY INFORMATION

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

International Inventories
X = listed.

<table>
<thead>
<tr>
<th>Component</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>NLP</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>PICCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>AICS</th>
<th>KECL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methyl-2-pyrrolidinone</td>
<td>212-828-1</td>
<td>-</td>
<td></td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>KE-2532 4</td>
</tr>
</tbody>
</table>

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|-----------|---------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|

National Regulations

<table>
<thead>
<tr>
<th>Component</th>
<th>Germany - Water Classification (VwVwS)</th>
<th>Germany - TA-Luft Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methyl-2-pyrrolidone</td>
<td>WGK 1</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>France - INRS (Tables of occupational diseases)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methyl-2-pyrrolidone</td>
<td>Tableaux des maladies professionnelles (TMP) - RG 84</td>
</tr>
</tbody>
</table>

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment. Take note of Dir 94/33/EC on the protection of young people at work. Take note of Dir 92/85/EC on the protection of pregnant and breastfeeding women at work.

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H360D - May damage the unborn child

Legend

- CAS - Chemical Abstracts Service
- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- PICCS - Philippine Inventory of Chemicals and Chemical Substances
- ENCS - Japanese Existing and New Chemical Substances
- IECSC - Chinese Inventory of Existing Chemical Substances
- AICS - Australian Inventory of Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- NZIoC - New Zealand Inventory of Chemicals
- WEL - Workplace Exposure Limit
- ACGIH - American Conference of Governmental Industrial Hygienists
- TWA - Time Weighted Average
- DNEL - Derived No Effect Level
- IARC - International Agency for Research on Cancer
- RPE - Respiratory Protective Equipment
- PNEC - Predicted No Effect Concentration
- LC50 - Lethal Concentration 50%
- LD50 - Lethal Dose 50%
- NOEC - No Observed Effect Concentration
- EC50 - Effective Concentration 50%
- PBT - Persistent, Bioaccumulative, Toxic
- POW - Partition coefficient Octanol:Water
- vPvB - very Persistent, very Bioaccumulative
- ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road
- ICAO/IATA - International Civil Aviation Organization/International Air Transport Association
- IMO/IMDG - International Maritime Organization/International Maritime
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<table>
<thead>
<tr>
<th>Dangerous Goods Code</th>
<th>MARPOL - International Convention for the Prevention of Pollution from Ships</th>
</tr>
</thead>
<tbody>
<tr>
<td>OECD</td>
<td>ATE - Acute Toxicity Estimate</td>
</tr>
<tr>
<td>BCF</td>
<td>VOC - Volatile Organic Compounds</td>
</tr>
</tbody>
</table>

**Key literature references and sources for data**
Suppliers safety data sheet, Chemadvisor - LOLE, Merck index, RTECS

**Training Advice**
Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.
Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.
First aid for chemical exposure, including the use of eye wash and safety showers.
Chemical incident response training.
Fire prevention and fighting, identifying hazards and risks, static electricity, explosive atmospheres posed by vapours and dusts.

**Creation Date** 12-Nov-2009  
**Revision Date** 26-Feb-2019  
**Revision Summary** Not applicable.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**Disclaimer**
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**