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

1.1 Product identifier.

Product Name: 2-Amino-2-methyl-1-propanol
Product Code: 100571
Chemical Name: 2-Amino-2-methyl-1-propanol
Index No: 603-070-00-6
CAS No: 124-68-5
EC No: 204-709-8
Registration No: 01-2119475788-16-XXXX

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

For manufacturing, processing, laboratory or repacking use only
Uses advised against:
Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Company: DC FINE CHEMICALS Ltd.
Address: Hill Top, 88
City: NW11 6DY London (United Kingdom)
Telephone: +44 (20) 7586 6800
Fax: +44 (20) 7504 1701
E-mail: info@dcfinechemicals.com
Web: www.dcfinechemicals.com

1.4 Emergency telephone number: (Only available during office hours)

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the substance.

In accordance with Regulation (EU) No 1272/2008:
Aquatic Chronic 3 : Harmful to aquatic life with long lasting effects.
Eye Irrit. 2 : Causes serious eye irritation.
Skin Irrit. 2 : Causes skin irritation.

2.2 Label elements.

Labelling in accordance with Regulation (EU) No 1272/2008:
Pictograms:

! WARNING

Signal Word:

Warning

H statements:
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

P statements:
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.
P302+P352 IF ON SKIN: Wash with plenty of water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse. 
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Contains:  
2-Amino-2-methyl-1-propanol

2.3 Other hazards.  
In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment. 
PBT Substance (Persistent, Bioaccumulative and Toxic) and vPvB (very Persistent and very Bioaccumulative).

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances. 
Chemical Name: [2] [3] 2-Amino-2-methyl-1-propanol  
Index No: 603-070-00-6  
CAS No: 124-68-5  
CE No: 204-709-8  
Registration No: 01-2119475788-16-XXXX  
[3] vPvB Substance (very Persistent and very Bioaccumulative).

3.2 Mixtures.  
Not Applicable.

SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.  
In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Inhalation.  
If wearing contact lenses, remove them. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

Eye contact.  
If wearing contact lenses, remove them. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

Skin contact.  
Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

Ingestion.  
If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed.  
Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate. Can cause allergic reactions.

4.3 Indication of any immediate medical attention and special treatment needed.  
In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

SECTION 5: FIREFIGHTING MEASURES.

The product is NOT classified as flammable, in case of fire the following measures should be taken:

5.1 Extinguishing media.  
Recommended extinguishing methods.
Extinguisher powder or CO$_2$. In case of more serious fires, also alcohol-resistant foam and water spray. Do not use a direct stream of water to extinguish.

5.2 Special hazards arising from the substance. Special risks.
Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

5.3 Advice for firefighters.
Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways.
Fire protection equipment.
According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and gloves.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.
For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.
Prevent the contamination of drains, surface or subterranean waters, and the ground.

6.3 Methods and material for containment and cleaning up.
Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc.). Pour the product and the absorbent in an appropriate container. The contaminated area should be immediately cleaned with an appropriate decontaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

6.4 Reference to other sections.
For exposure control and individual protection measures, see section 8.
For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.
For personal protection, see section 8. Never use pressure to empty the containers. They are not pressure-resistant containers. In the application area, smoking, eating, and drinking must be prohibited. Follow legislation on occupational health and safety. Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.
Store according to local legislation. Observe indications on the label. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills. The product is not affected by Directive 2012/18/EU (SEVESO III).

7.3 Specific end use(s).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.
The product does NOT contain substances with Professional Exposure Environmental Limit Values. The product does NOT contain substances with Biological Limit Values.

8.2 Exposure controls.

Measures of a technical nature:
Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.
### Characteristics:

- **Melting point:** N.A./N.A.

### Melting point:

- **N.A./N.A.**

### Observations:

- Read carefully the manufacturer’s instructions regarding the equipment’s use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.

### Hand protection:

<table>
<thead>
<tr>
<th>PPE:</th>
<th>Protective gloves against chemicals.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Characteristics:</td>
<td>«CE» marking, category III.</td>
</tr>
<tr>
<td>CEN standards:</td>
<td>EN 374-1, EN 374-2, EN 374-3, EN 420</td>
</tr>
<tr>
<td>Maintenance:</td>
<td>Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible.</td>
</tr>
<tr>
<td>Observations:</td>
<td>Gloves should be of the appropriate size and fit the user’s hand well, not being too loose or too tight.</td>
</tr>
<tr>
<td>Filter Type needed:</td>
<td>A2</td>
</tr>
</tbody>
</table>

### Eye protection:

<table>
<thead>
<tr>
<th>PPE:</th>
<th>Face shield.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Characteristics:</td>
<td>«CE» marking, category II. Face and eye protector against splashing liquid.</td>
</tr>
<tr>
<td>CEN standards:</td>
<td>EN 165, EN 166, EN 167, EN 168</td>
</tr>
<tr>
<td>Maintenance:</td>
<td>Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer’s instructions. Make sure that mobile parts move smoothly.</td>
</tr>
<tr>
<td>Observations:</td>
<td>Face shields should offer a field of vision with a dimension in the central line of, at least, 150 mm vertically once attached to the frame.</td>
</tr>
</tbody>
</table>

### Skin protection:

<table>
<thead>
<tr>
<th>PPE:</th>
<th>Anti-static protective clothing.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Characteristics:</td>
<td>«CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user’s movements.</td>
</tr>
<tr>
<td>CEN standards:</td>
<td>EN 340, EN 1149-1, EN 1149-2, EN 1149-3, EN 1149-5</td>
</tr>
<tr>
<td>Maintenance:</td>
<td>In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.</td>
</tr>
<tr>
<td>Observations:</td>
<td>The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user’s level of activity and the expected time of use.</td>
</tr>
</tbody>
</table>

### Material:

<table>
<thead>
<tr>
<th>Material:</th>
<th>PVC (polyvinyl chloride)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breakthrough time (min.):</td>
<td>&gt; 480</td>
</tr>
<tr>
<td>Material thickness (mm):</td>
<td>0,35</td>
</tr>
</tbody>
</table>

### Maintenance:

- **Always use with clean, dry hands.**
- **CEN standards:** EN 136, EN 140, EN 405

### Skin protection:

- **Adhesives.**

### Observations:

- **CEN standards:** EN 165, EN 166, EN 167, EN 168

### Maintenance:

- **Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer’s instructions. Make sure that mobile parts move smoothly.**
- **Face shields should offer a field of vision with a dimension in the central line of, at least, 150 mm vertically once attached to the frame.**

### Eye protection:

- **CEN standards:** EN ISO 13287, EN ISO 20344, EN ISO 20346
- **The footwear should be checked regularly**
- **The level of comfort during use and acceptability are factors that are assessed very differently depending on the user. Therefore, it is advisable to try on different footwear models and, if possible, different widths.**

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

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

- **Appearance:** Liquid
- **Colour:** N.A./N.A.
- **Odour:** N.A./N.A.
- **Odour threshold:** N.A./N.A.
- **pH:** 11,3 (1%, 20°C)
- **Melting point:** N.A./N.A.
Boiling Point: 165 ºC
Flash point: 77 ºC
Evaporation rate: N.A./N.A.
Inflammability (solid, gas): N.A./N.A.
Lower Explosive Limit: N.A./N.A.
Upper Explosive Limit: N.A./N.A.
Vapour pressure: N.A./N.A.
Vapour density:N.A./N.A.
Relative density:0,95 g/cm³
Solubility:N.A./N.A.
Liposolubility: N.A./N.A.
Hydrosolubility: N.A./N.A.
Partition coefficient (n-octanol/water): -0,63 (log Pow)
Auto-ignition temperature: 438ºC
Decomposition temperature: N.A./N.A.
Viscosity: N.A./N.A.
Explosive properties: N.A./N.A.
Oxidizing properties: N.A./N.A.
N.A./N.A. = Not Available/Not Applicable due to the nature of the product

9.2. Other information.

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.
The product does not present hazards by their reactivity.

10.2 Chemical stability.
Unstable in contact with:
- Acids.

10.3 Possibility of hazardous reactions.
Neutralization can occur on contact with acids.

10.4 Conditions to avoid.
- Avoid contact with acids.

10.5 Incompatible materials.
Avoid the following materials:
- Acids.

10.6 Hazardous decomposition products.
Depending on conditions of use, can be generated the following products:
- Corrosive vapors or gases.

SECTION 11: TOXICOLOGICAL INFORMATION.

11.1 Information on toxicological effects.
Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.
Splatters in the eyes can cause irritation and reversible damage.

Toxicological information.

<table>
<thead>
<tr>
<th>Name</th>
<th>Acute toxicity</th>
<th>Type</th>
<th>Test</th>
<th>Kind</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Amino-2-methyl-1-propanol</td>
<td>Oral</td>
<td>DL50</td>
<td>Rat</td>
<td>2.9 g/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dermal</td>
<td>DL50</td>
<td>rab</td>
<td>2 g/kg</td>
<td></td>
</tr>
<tr>
<td>CAS No: 124-68-5</td>
<td>Inhalation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC No: 204-709-8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
a) acute toxicity;  
Not conclusive data for classification.

b) skin corrosion/irritation;  
Product classified:  
Skin irritant, Category 2: Causes skin irritation.

c) serious eye damage/irritation;  
Product classified:  
Eye irritation, Category 2: Causes serious eye irritation.

d) respiratory or skin sensitisation;  
Not conclusive data for classification.

e) germ cell mutagenicity;  
Not conclusive data for classification.

f) carcinogenicity;  
Not conclusive data for classification.

g) reproductive toxicity;  
Not conclusive data for classification.

h) STOT-single exposure;  
Not conclusive data for classification.

i) STOT-repeated exposure;  
Not conclusive data for classification.

j) aspiration hazard;  
Not conclusive data for classification.

### SECTION 12: ECOLOGICAL INFORMATION.

#### 12.1 Toxicity.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Test</th>
<th>Kind</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Amino-2-methyl-1-propanol</td>
<td>Fish</td>
<td>LC50</td>
<td>Lepomis macrochirus</td>
<td>190 mg/l (96 h)</td>
</tr>
<tr>
<td></td>
<td>Aquatic</td>
<td>EC50</td>
<td>Daphnia magna</td>
<td>193 mg/l (48 h)</td>
</tr>
<tr>
<td></td>
<td>Aquatic</td>
<td>IC50</td>
<td>Desmodesmus subspicatus</td>
<td>520 mg/l (72 h)</td>
</tr>
<tr>
<td>CAS No: 124-68-5 EC No: 204-709-8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 12.2 Persistence and degradability.
PBT Substance (Persistent, Bioaccumulative and Toxic) and vPvB (very Persistent and very Bioaccumulative).

#### 12.3 Bioaccumulative potential.  
Information about the bioaccumulation.

<table>
<thead>
<tr>
<th>Name</th>
<th>Log Pow</th>
<th>BCF</th>
<th>NOECs</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Amino-2-methyl-1-propanol</td>
<td>-0.63</td>
<td>-</td>
<td>-</td>
<td>Very low</td>
</tr>
<tr>
<td>N. CAS: 124-68-5 EC No: 204-709-8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

-Continued on next page.-
12.4 Mobility in soil.
No information is available about the mobility in soil.
The product must not be allowed to go into sewers or waterways.
Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.
PBT Substance (Persistent, Bioaccumulative and Toxic) and vPvB (very Persistent and very Bioaccumulative), according to assessment made in the Chemical Safety Report, substance meets criteria to be considered PBT and vPvB.

12.6 Other adverse effects.
No information is available about other adverse effects for the environment.

SECTION 13 DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.
Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

SECTION 14: TRANSPORT INFORMATION.

Transportation is not dangerous. In case of road accident causing the product’s spillage, proceed in accordance with point 6.
14.1 UN number.
Transportation is not dangerous.

14.2 UN proper shipping name.
Transportation is not dangerous.

14.3 Transport hazard class(es).
Transportation is not dangerous.

14.4 Packing group.
Transportation is not dangerous.

14.5 Environmental hazards.
Transportation is not dangerous.

14.6 Special precautions for user.
Transportation is not dangerous.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.
Transportation is not dangerous.

SECTION 15: REGULATORY INFORMATION.

15.1 Safety, health and environmental regulations/legislation specific for the substance.
The product is not affected by Directive 2012/18/EU (SEVESO III).
The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.
The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

15.2 Chemical safety assessment.
There has been no evaluation a chemical safety assessment of the product.
SECTION 16: OTHER INFORMATION.

Classification codes:

Aquatic Chronic 3 : Chronic effect to the aquatic environment, Category 3
Eye Irrit. 2 : Eye irritation, Category 2
Skin Irrit. 2 : Skin irritant, Category 2

Sections changed compared with the previous version:

1, 2, 16

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Labelling in accordance with Directive 67/548/EEC:

Symbols:

Xi

R Phrases:
R36/38  Irritating to eyes and skin.
RS2/53  Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrases:
S61  Avoid release to the environment. Refer to special instructions/safety data sheets.

Abbreviations and acronyms used:
BCF: Bioconcentration factor.
CEN: European Committee for Standardization.
EC50: Half maximal effective concentration.
PPE: Personal protection equipment.
LD50: Lethal concentration, 50%.
LSD50: Lethal dose, 50%.
Log Pow: Logarithm of the partition octanol-water.
NOEC: No observed effect concentration.

Key literature references and sources for data:
http://eur-lex.europa.eu/homepage.html
http://echa.europa.eu/


The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.