

**SAFETY DATA SHEET**

According to EC-directive 93/112/EC

Created 07/05/2005 Version 1.0

**Equi-N-icE Solution****1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING****Product label name**                      **Equi-N-icE Solution****Supplier**  
Bio-Tech Solutions Ltd.  
Windmill Works  
Kelleythorpe Industrial Estate  
Driffield  
East Yorkshire  
YO25 9DJ**Emergency telephone**                      +44 (0) 8704 450 154    Fax: +44 (0) 8704 450 254**2. COMPOSITION / INFORMATION INGREDIENTS****Chemical Description****Composition / information on ingredients**

Top 3

Number	%w/w	CAS number	Chemical name
1	10 to 30	64-17-5	ethyl alcohol
2	0.1 to 0.5	1490-04-6	Menthol

Number	EC-number	Annex-1 number	Symbols	Risk-phrases
1	200-578-6	603-002-00-5	F	R11 R20 R21 R22 R36 R37 R38
2	216-074-4			

**Other information**

Also Contain water, preservatives, humectants and colorants

**3. HAZARDS IDENTIFICATION****Main Hazard:****Secondary Hazard:**

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## Equi-N-icE

### 4. FIRST AID MEASURES

#### Symptoms and effects

May be irritating to eyes and digestive tract.

#### First aid

<b>General</b>	Seek medical attention in all cases of doubt
<b>Inhalation</b>	None.
<b>Skin</b>	None.
<b>Eye</b>	Wash eye with fresh water or sterile saline for at least 15 minutes. Seek medical attention if irritation persists.
<b>Ingestion</b>	DO NOT INDUCE VOMITING. Wash mouth out with water. Seek medical attention.

#### Advice to physician

### 5. FIRE FIGHTING MEASURES

<b>Flash Point</b>	38°C (closed cup)
<b>Autoignition Temperature</b>	= tbd
<b>Suitable Extinguishing Media</b>	Dry chemicals, sand, dolomite etc. halon, powder, foam or CO2.
<b>Special Precautions</b>	Use water to keep fire exposed containers cool and disperse vapours. Keep run-off water out of sewers and water sources. Dike for water control. Cool containers exposed to flames with water from the side until well after the fire is out. If water pollution occurs, notify appropriate authorities.
<b>Unusual Fire and Explosion Risks</b>	May explode in a fire. May form explosive or toxic mixtures with air. May explode when heated or when exposed to flames or sparks. May travel considerable distance to source or ignition and flash back. Vapor explosion and poison hazard indoors, outdoors and in sewers.

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## Equi-N-ice

<b>Hazardous Decomposition Products</b>	Flammable gases/vapours/fumes of carbon monoxide (CO), hydrocarbons.
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## 6. ACCIDENTAL RELEASE MEASURES

<b>General</b>	Remove all sources of ignition.
<b>Small Spillage</b>	Flush contaminated area with plenty of water.
<b>Large Spillage</b>	Prevent liquid from spreading using sand or earth. Remove majority of liquid to a salvage container and absorb the remainder with earth or sand. Do not wash indiscriminately down drains. If some liquid enters drains inform Fire Brigade and Water Authority.
<b>Personal Precautions</b>	When dealing with large spillage, protective overalls, safety goggles, impervious gloves and rubber boots.

## 7. HANDLING AND STORAGE

<b>Suitable Packing</b>	Mild steel, stainless steel, copper, polyethylene.
<b>Unsuitable Packing</b>	Uncoated Aluminium.

Ensure there are no naked lights while handling .

Equi-N-ice should be stored in a cool, dry place. Avoid direct sunlight and sources of ignition.

Containers must be tightly closed.

## 8.EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Respiratory</b>	No specific requirements.
<b>Hand</b>	No specific requirements.
<b>Eye</b>	Eye goggles where splashing may occur.
<b>Other</b>	

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## Equi-N-icE

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear blue mobile Liquid

**pH:**

**Boiling point:**

**Melting point:**

**Flash point:** 38°C (closed cup)

**Vapour pressure:**

**Relative density:** ~0.90

**Solubility in water:** Complete

**Solubility in:**

**Partition coefficient: n-octanol/water:**

**Other data:**

**Odour:** Distinct Menthol

### 10. STABILITY AND REACTIVITY

**Stability** Avoid heat, sparks and flames.

**Conditions to Avoid** Reacts with oxides.

**Materials to Avoid** Oxidizing agents, concentrated nitric acid and sulfuric acid. Acetyl Chloride, Chromium Trioxide, Hydrogen Peroxide, Mercuric Nitrate, Antimony Pentafluoride, Perchloric Acid Platinum, Potassium, Potassium-tert-Butoxide, Silver Nitrate.

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## Equi-N-ice

### Materials to Avoid

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### Hazardous decomposition products

Flammable gases/vapours/fumes of carbon monoxide (CO), hydrocarbons.

## 11. TOXICOLOGY INFORMATION

### Skin contact:

Unlikely to cause appreciable irritation, even on repeated contact.

### Eye contact:

High vapour concentrations, may cause irritation to the eyes.

### Ingestion:

May cause nausea and vomiting.

### Inhalation:

High concentrations may cause irritation to the nose, throat and mucus membranes.

## 12. ECOLOGICAL INFORMATION

### Bio-Accumulation

Does not bio-accumulate

### Ecotoxicity

Ethanol presents no appreciable risk to aquatic flora or fauna. It is readily biodegradable and evaporates.

### Biodegradability

Ethanol is readily biodegradable after 15 days in non-acclimated fresh water. 75% biodegradability occurs after 20 days in salt water (no specific data on Equi-N-ice)

## 13. DISPOSAL CONSIDERATIONS

Incinerate in suitable combustion chamber. Collect on absorbent material, place in cardboard kegs and incinerate. Do not allow run-off to sewer, waterway or ground.

DO NOT pour into drains. Obtain the services of a Waste Disposal Contractor for advice. Send a registered tip or disposal of in a safe area under controlled conditions of incineration to comply with local and national regulations.

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**Equi-N-icE**

## 14. TRANSPORT INFORMATION

**UN No.**

**IMDG.**

**ICAO/IATA.**

**ADR.**

**Proper Shipping Name:**

**Additional Information:**

## 15. REGULATORY INFORMATION

Labelling according to the criteria of EEC Directive 88/379/EEC.

**Symbols:**

**R-Phrases:**

<b>S-Phrases:</b>	S-7	Keep container tightly closed.
	S-16	Keep away from sources of ignition - No smoking

**Additional Information:**

Refer to national legislation for specific measures that may be relevant

## 16. OTHER INFORMATION

The Information given in this safety data sheet is based on knowledge available at the time of completion and is intended to describe the product only in terms of health and safety requirements. It does not signify any warranty with regard to specific properties or specifications.

Authorised By

