

according to Regulation (EU) 2015/830

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## Michelin De-Icer 600ml

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SECTION 1: Identification of the substance/mixture and	of the company/undertaking
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#### 1.1. Product identifier

**Product Use** 

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

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[SU21] Consumer uses: Private households (= general public = consumers);

[SU22] Professional uses: Public domain (administration, education, entertainment, services,

craftsmen);

### 1.3. Details of the supplier of the safety data sheet

Company	Future Developments Manufacturing Ltd
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Address **Davenport Street** 

Burslem

Stoke on Trent ST6 4HS Staffordshire

Web www.fdev.co.uk 01782 826870 Telephone Fax 01782 816392 **Email** sales@fdev.co.uk

Email address of the competent person

support@fdhost.co.uk

### 1.4. Emergency telephone number

Emergency telephone number	01702 020000
Emergency telephone number	1 01782829000

9.00am-5.00pm Mon - Fri

#### SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

2.1.1. Classification -F+: R12

1999/45/EC

Symbols: F+: Extremely flammable.

Main hazards

Extremely flammable.

2.1.2. Classification - EC

1272/2008

Flam. Liq. 2: H225; Skin Irrit. 2: H315; Eye Irrit. 2: H319;

### 2.2. Label elements

### Hazard pictograms





Signal Word

**Hazard Statement** 

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

Skin Irrit. 2: H315 - Causes skin irritation.

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### 2.2. Label elements

	Eye Irrit. 2: H319 - Causes serious eye irritation.				
Precautionary Statement:	H302 - Harmful if swallowed.				
Prevention	P102 - Keep out of reach of children				
	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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.				
	P264 - Wash thoroughly after handling.				
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.				
Precautionary Statement:	P302+P352 - IF ON SKIN: Wash with plenty of water/ .				
Response	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse				
	skin with water/shower.				
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact				
	lenses, if present and easy to do. Continue rinsing.				
	P321 - Specific treatment (see on this label).				
	P332+P313 - If skin irritation occurs: Get medical advice/attention.				
	P337+P313 - If eye irritation persists: Get medical advice/attention.				
	P370+P378 - In case of fire: Use to extinguish.				
Precautionary Statement:	P403+P235 - Store in a well-ventilated place. Keep cool.				
Storage					
Precautionary Statement:	P501 - Dispose of contents/container to local and national regulations				
Disposal					

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

### 67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Ethanol	603-002-00-5	64-17-5	200-578-6		20 - 30%	F; R11	
Mono ethylene glycol	603-027-00-1	107-21-1	203-473-3		10 - 20%	Xn; R22	
n-butane, Isobutane, Propane mixture		68476-85-7	270-704-2		10 - 20%		
Ammonia solution	007-001-01-2	1336-21-6	215-647-6		0.5 - 1%	C; R34 N; R50	
Methanol	603-001-00-X	67-56-1	200-659-6		0 - 0.5%	F; R11 T; R23/24/25-39/23/24/25	

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Ethanol	603-002-00-5	64-17-5	200-578-6		20 - 30%	Flam. Liq. 2: H225;	
Mono ethylene glycol	603-027-00-1	107-21-1	203-473-3		10 - 20%	Acute Tox. 4: H302;	
n-butane, Isobutane, Propane mixture		68476-85-7	270-704-2		10 - 20%	Flam. Gas 1: H220; Liquified gas: H280;	
Ammonia solution	007-001-01-2	1336-21-6	215-647-6		0.5 - 1%	Skin Corr. 1B: H314; Aquatic Acute 1: H400;	
Methanol	603-001-00-X	67-56-1	200-659-6		0 - 0.5%	Flam. Liq. 2: H225; Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; STOT SE 1: H370;	

## SECTION 4: First aid measures

### 4.1. Description of first aid measures



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4.1. Description of first aid meas	sures
	Move the exposed person to fresh air. Seek medical attention.
Eye contact	May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist.
4.2. Most important symptoms a	nd effects, both acute and delayed
Inhalation	See section 4.1 for further information.
Eye contact	See section 4.1 for further information.
Skin contact	See section 4.1 for further information.
Ingestion	See section 4.1 for further information.
General information	
	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
SECTION 5: Firefighting mea	asures
5.1. Extinguishing media	
	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
5.2. Special hazards arising fron	'
· •	Burning produces irritating, toxic and obnoxious fumes. Vapour may travel considerable distance to source of ignition and flash back.
5.3. Advice for firefighters	
	Wear suitable respiratory equipment when necessary.
SECTION 6: Accidental relea	ase measures
	ctive equipment and emergency procedures
	Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Eliminate all sources of ignition. Wear suitable protective equipment.
6.2. Environmental precautions	1 contract of the contract of
	Do not allow product to enter drains. Prevent further spillage if safe.
6.3. Methods and material for co	<u>'</u>
	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
6.4. Reference to other sections	
	See section 2,3,8,13 for further information.
SECTION 7: Handling and s	torage
7.1. Precautions for safe handling	
	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Use explosion proof equipment. Keep away from sources of ignition - No smoking.
7.2. Conditions for safe storage,	including any incompatibilities
	Keep in a cool, dry, well ventilated area. Store in correctly labelled containers. Keep at temperature not exceeding 50°C.
7.3. Specific end use(s)	
	See section 1.2 for further information. Not to be used inside vehicles.



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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

See section 8.2 for further information.

### 8.1.1. Exposure Limit Values

Ethanol	WEL 8-hr limit ppm: 1000	WEL 8-hr limit mg/m3: 1920
Lularior	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	· · ·	•
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total	WEL 15 min limit mg/m3 total -
	respirable dust:	respirable dust:
Methanol	WEL 8-hr limit ppm: 200	WEL 8-hr limit mg/m3: 266
	WEL 15 min limit ppm: 250	WEL 15 min limit mg/m3: 333
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	inhalable dust:	inhalable dust:
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	respirable dust:	respirable dust:
Mono ethylene glycol	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 10
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	inhalable dust:	inhalable dust:
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	respirable dust:	respirable dust:
	WEL 8-hr limit ppm: 20	WEL 8-hr limit mg/m3: 52
	WEL 15 min limit ppm: 40	WEL 15 min limit mg/m3: 104
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	inhalable dust:	inhalable dust:
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	respirable dust:	respirable dust:
n-butane, Isobutane, Propane mixture	WEL 8-hr limit ppm: 1000	WEL 8-hr limit mg/m3: 1750
	WEL 15 min limit ppm: 1250	WEL 15 min limit mg/m3: 2180
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	inhalable dust:	inhalable dust:
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	respirable dust:	respirable dust:

## 8.2. Exposure controls

	Not to be used inside vehicles.			
8.2.1. Appropriate engineering	Ensure adequate ventilation of the working area.			
controls				
8.2.2. Individual protection	Avoid contact with eyes and skin.			
measures				
Eye / face protection	Approved safety goggles.			
Skin protection -	Chemical resistant gloves (PVC).			
Handprotection				
Respiratory protection	Do not breathe.			

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Clear
Odour	Characteristic
pН	10.5 - 11.5
Flash point	-60



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SECTION 10: Stability and re	Revision date 2017-11
10.1. Reactivity	eactivity
10.1. Rodouvity	Avoid sparks, flames, heat and sources of ignition.
	Avoid sparks, names, near and sources of ignition.
TOTAL CHOMICAL CLASHING	Stable under normal conditions.
Total Foodibility of Hazardous Foo	Oxidising agents.
10.4. Conditions to avoid	
	Heat, sparks and open flames.
10.5. Incompatible materials	
	No data avaiable.
10.6. Hazardous decomposition	
,	No data is available on this product.
SECTION 11: Toxicological i	·
11.1. Information on toxicologica	
Acute toxicity Skin corrosion/irritation	Harmful if swallowed. Ingestion may cause nausea and vomiting.  CAUSES SKIN IRRITATION.
Serious eye damage/irritation	Causes serious eye irritation.
11.1.4. Toxicological Information	· · · · · · · · · · · · · · · · · · ·
J	No data available
SECTION 12: Ecological info	rmation
12.1. Toxicity	illiauoli
12.1. TOXIGITY	No data available
12.2. I eroioterice and degradable	No data on possible environmental effects have been found.
12.3. Bioaccumulative potential	No data on possible environmental effects have been found.
12.0. Dioaccumulative potential	No data is available on this product.
12.4. Mobility in soil	No data is available on this product.
12.4. Woomity III con	No data is available on this product.
	·
	No data on possible environmental effects have been found.
	Not expected to have a significant enviornmental impact.
SECTION 42: Diamond consi	
SECTION 13: Disposal consi	uciauviis
I3.1. Waste treatment methods	Disease of words and residues in accordance with level ways.
	Dispose of waste and residues in accordance with local requirements. Do NOT incinerate the container even when empty.
General information	
	Dispose of in compliance with all local and national regulations.
SECTION 14: Transport info	
Hazard pictograms	IIIauoii



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Hazard pictograms		
	2	
14.1. UN number		
	UN1950	
14.2. UN proper shipping name		
	AEROSOLS	
14.3. Transport hazard class(es)		
ADR/RID	2	
Subsidiary risk	see SP63	
IMDG	2	
Subsidiary risk	see SP63	
IATA	2	
Subsidiary risk	see SP63	
14.4. Packing group		
Packing group	-	
14.5. Environmental hazards		
Environmental hazards	No	
Marine pollutant	No	
ADR/RID		
Hazard ID	-	
Tunnel Category	(D)	
IMDG		
EmS Code	F-D S-U	
IATA		
Packing Instruction (Cargo)	203	
Maximum quantity	150 kg	
Packing Instruction	203	
(Passenger)		
Maximum quantity	75 kg	
SECTION 15: Regulatory information		

#### SECTION 15: Regulatory information

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

The classification detailed on this safety data sheet refers to the neat material only. Dilution of the product may reduce the classification. This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 & (EC) No. 1272/2208 & (EC) 1999/45.

### 15.2. Chemical safety assessment

No information available.

### **SECTION 16: Other information**

### Other information

Text of risk phrases in Section 3

R11 - Highly flammable.

R22 - Harmful if swallowed.

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.



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Other information		
Text of Hazard Statements in Section 3	R34 - Causes burns. R39/23/24/25 - Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. R50 - Very toxic to aquatic organisms.  Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Acute Tox. 4: H302 - Harmful if swallowed. Flam. Gas 1: H220 - Extremely flammable gas. Liquified gas: H280 - Contains gas under pressure; may explode if heated. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Aquatic Acute 1: H400 - Very toxic to aquatic life. Acute Tox. 3: H301 - Toxic if swallowed. Acute Tox. 3: H311 - Toxic in contact with skin. Acute Tox. 3: H331 - Toxic if inhaled. STOT SE 1: H370 - Causes damage to organs .	
STOT SE 2: H371 - May cause damage to organs .		
Further information	<u></u>	
	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This 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 other process.	