

Date of issue: 02.05.2011 Replaces Data Sheet of :

"*" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

1 Identification of Substance / Preparation and Company

1.1 Identification of Substance or Preparation

Trade Name : **BalcoNano_Coating**

Use: Coating for glass / ceramics

1.2 Company / Undertaking Identification

1.2.1 Manufacturer / Supplier

Balcony Systems Solutions Ltd.,
Unit 6 Systems House, Eastbourne Road, Blindley Heath
RH7 6JP Lingfield, Surrey

Enquiries@balconette.co.uk

Tel: 01342-410411 Fax: 01342-410412

1.3 Further information obtainable from:

Department laboratory

Emergency telephone number::

local hospital

2 Composition / Information on Ingredients

2.1 Chemical Characterisation:

Aqueous acidic alcoholic solution with special active agents

2.2 Dangerous Ingredients:

CAS - No.	Index - No.	EEC - No.	Material	m% - range	Symbol	R - phrases
64-17-5	603-002-00-5	200-578-6	Ethanol (denatured)	~ 90 %	F	R 11

Remarks:

Classification and labelling of a product is indicated under item 15.

Exposure Controls / Personal Protection under item 8

R -phrase(s) under item 16

3 Hazards Identification

3.1 For Humans (additional information is given under item 11) :

3.1.1 Classification :

R 11 : Highly flammable.

F



3.1.2 Additional advice :

May form highly flammable vapour-air mixture. Degreases skin. May cause temporary skin and eye irritation. Inhalation of solvent-vapours in high concentration causes narcotic effects.

3.2 For the Environment :

Slightly water endangering.

4 First Aid Measures

4.1 General advice

Show this safety data sheet to the doctor in attendance.

4.2 Inhalation:

Remove from danger area and provide for fresh air.

Consult physician.

4.3 Skin Contact :

Wash away with water.

If irritation persists consult physician.

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4.4 **Eye Contact :**

In case of contact with eyes rinse thoroughly with water.
If irritation persists consult physician.

4.5 **Ingestion :**

Do not cause vomiting. Rinse mouth out and drink plenty of water.
In case of swallowing larger quantities consult physician immediately.

4.6 **Note to Physician:**

Symptomatic treatment.

4.7 **Special Equipment:**

n.av.

5 **Fire Fighting Measures**

5.1 **Suitable Extinguishing Media :** Water, foam, dry powder.

5.2 **Extinguishing Media to Avoid :** Carbon dioxide (Formation of phosgene)

5.3 **Fire and Explosion Hazards :**

In case of fire, product may form: Organic crackproducts, carbon oxides, halogen inorganic crack products.

5.4 **Additional Information :** Cool containers at risk with water spray jet. Risk of explosion if the liquid enters the drains.
Vapours may form an explosive mixture with air.

5.5 **Special Protective Equipment :**

Wear positive pressure self-contained breathing apparatus.
Wear full protective clothing.

6 **Accidental Release Measures**

6.1 **Personal Precautions :**

See Personal Protective Equipment.

Do not inhale vapours. Avoid contact with eyes and skin. Keep away from sources of ignition. Do not smoke.

6.2 **Environmental Precautions and Methods for Cleaning up :**

Do not allow larger quantities to enter drainage. Inform responsible authorities after accidental conduction of larger quantities. Send in suitable containers for recovery or disposal. Take up residues with suitable absorbent materials.

6.3 **Methods for Cleaning up:**

Clean-up methods – large spillage:

Take up with suitable absorbent materials. Send in suitable containers for recovery of disposal.

Clean-up methods – small spillage:

Take up with suitable absorbent materials. Send in suitable containers for recovery of disposal.

6.4 **Further Information :**

Use personal protective clothing.

7 **Handling and Storage**

7.1 **Handling**

7.1.1 **Precautions for Safe Handling :**

Provide sufficient ventilation. Keep container tightly closed Close container straight after use or if empty. Provide good room ventilation even at ground level (vapours are heavier than air). Ignitable mixtures can form in the empty container.

7.1.2 **Precautions in Case of Fire and Explosion :**

Keep away from sources of ignition, do not smoke. Vapours may form an explosive mixture with air.

7.2 **Storage**

7.2.1 **Storage Instructions :**

Floor must be resistant against solvents.

7.2.2 **Store away from :**

Store away from explosive substances and oxidizing agents.

7.2.3 **Further Information on Storage Conditions :**

Provide sufficient ventilation. Protect from sun.

7.2.4 **Storage Class :** 3B (VCI - Concept)

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8 Exposure Controls and Personal Protection

8.1 Information on System Design :

Provide sufficient air exchange and/or exhaust in work rooms. Provide personal protective equipment.

8.2 Exposure Limits:

8.2.1 CAS / Material

64-17-5 / Ethanol

Limit Value according to TRGS 900/ EEC Guidline 2000/39:

500 ppm, 960mg /m³, Y

8.3 Personal Protective Equipment

8.3.1 General Protection and Hygiene :

Avoid contact with eyes and skin. Do not eat, drink or smoke during work. Take off contaminated, saturated clothing immediately. Do not inhale vapours. Preventive skin protection by skin protection ointment.

8.3.2 Respiratory Protection :

If ventilation is insufficient, wear respiratory protection. Short term: filter apparatus A.

8.3.3 Hand Protection :

Long Term-Exposure:

Butyl rubber, PVA or Vitone gloves according to EN 374

Break through time: >480 min / material thickness 0,7mm / Level 6

Refer to manufacturer/supplier of the gloves for further information.

Short Term-Exposure:

Butyl rubber or PVA gloves according to EN 374

Break through time: >30 min / material thickness 0,4mm / Level 2

Refer to manufacturer/supplier of the gloves for further information.

8.3.4 Eye Protection : Goggles

8.3.5 Skin Protection : No.

8.3.6 Further Information :

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

9 Physical and Chemical Properties

9.1 Appearance

9.1.1 Form : non-woven impregnated

9.1.2 Colour : colourless

9.1.3 Odour : alcohol-like

9.2 Safety Relevant Data (relevant for the liquid)

9.2.1 pH-value, undiluted :

1,7, pH-value, 1% aqueous solution : n.av.

9.2.2 Boiling point / Boiling - range (°C) :

n.av., Melting point / Melting range (°C) : n.av.

9.2.3 Flash point (°C, c.c.) :

< 21

9.2.4 Flammability (EEC A10/A13) :

highly flammable

9.2.5 Ignition temperature (°C) :

n.av.

9.2.6 Autoflammability (EEC A16) :

No.

9.2.7 Oxidising properties :

No.

9.2.8 Explosion hazard :

May form flammable/explosive vapour-air mixture

9.2.9 Explosion limits (Vol.%) lower :

3,5 (Ethanol), upper : 15 (Ethanol)

9.2.10 Vapour pressure :

59 mbar (Ethanol)

9.2.11 Density (g/ml) :

0,823

9.2.12 Solubility (in Water) :

Soluble soluble in most organic solvents.

9.2.13 Partition coefficient, n-Octanol/Water :

n.av.

9.2.14 Viscosity :

n.av.

9.2.15 Solvent separation test :

n.av.

9.2.16 Solvent content (m %) :

~ 90 %

9.2.17 Fat solubility :

yes

9.3 Further Data

9.3.1 Thermal decomposition (°C) :

n.av.

9.3.2 Vapour density (Air = 1) :

1,59 (Ethanol)

9.3.3 Evaporation rate :

n.av.

10 Stability and Reactivity

10.1 Conditions to Avoid :

Sparks, flames, static charge.

10.2 Materials to Avoid :

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Reactions with oxidizer.

10.3 **Hazardous Decomposition Products :**
No dangerous decomposition products when properly handled.

10.4 **Further Information :**
None.

11 Toxicological Information

11.1 Toxicological Tests :

11.1.1 Acute Health Effects of the preparation:

Inhalation, LC₅₀ rat, (mg/l/4h) : n.av.
 Ingestion, LD₅₀ rat, (mg/kg) : n.av.
 Skin - contact, LD₅₀ rat, (mg/kg) : n.av.
 Irritation (to skin / eye) : none
 Sensitisation : Not sensitizing.

Acute Health Effects of Ethanol:

Inhalation, LC₅₀ rat, (ppm/10h) : 20.000
 Ingestion, LD₅₀ rat, (mg/kg) : 6.200
 Ingestion, LD₅₀ human, (mg/kg) : 1.400
 Skin - contact, LD₅₀ rat, (g/kg) : > 20

11.1.2 Subacute / Chronic Toxicity :

Carcinogenicity : No.
 Mutagenicity : No.
 Teratogenicity : Will probably not be a risk, if TLV is observed.
 Narcotic Effects : Inhalation of solvent-vapours in high concentration causes narcotic effects.

11.2 Practical Experience

11.2.1 Observations relevant for classification :
None.

11.2.2 Further Observations :
None.

11.3 **General Remarks :**
Classification of the preparation has been done by calculation in accordance with directives 1999/45/EC + 2006/8/EC

12 Environmental Information

12.1 Elimination (Persistence and Degradability) :

The product is biodegradable.

12.2 Behaviour in Sewage Works :

Mobility and Accumulation Potential :
Does not bioaccumulate

12.3 Ecotoxic Effects, Aquatic Toxicity :

Slightly water endangering

12.4 Other Ecological Information

12.4.1 COD-Value, mg/g : n.av.
 12.4.2 BOD₅-Value, mg/g : n.av.
 12.4.3 AOX-Remarks : Product does not contain any organic halogens
 12.4.4 Persistent, bioaccumulative and toxic substances (PTB-substances) : None
 12.4.5 Very persistent and very bioaccumulative substances (vPvB-substances): None

13 Disposal Considerations

13.1 Residues

13.1.1 Recommendation : R1 / D 10
Where possible recycling is preferred to disposal or incineration.
Waste - Code - No. : 07 01 04 – other organic solvents, washing liquids and other liquors

13.1.2 Safe Handling: See item 7 and 15.

13.2 Contaminated Packaging

13.2.1 Recommendation : Wash with suitable cleaner. Otherwise as described under Residues.
13.2.2 Safe Handling : As described under Residues.

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14 Transport Information

14.1 Transportation by Road or Railway according to ADR/GGVS and RID/GGVE

Remarks :

Class : 4.1 Classification : F 1 Packing Group : II

Instructions for Transportation in Tanks : Hazard-No. : 40 UN-No. : 3175

14.1.2 Additional Designation in the Shipper's Declaration : None

14.1.3 Inscription on Packaging : UN 3175

14.3 Classification for Transportation by Vessels according to IMDG/GGVSee

Remarks :

Class : 4.1 UN-No. : 3175 Packing Group : II

14.3.1 EmS-No / Leak. : F-E; S-D

MFAG-Table : Main dated from 01.02.2001

14.3.2 Marine Pollutant : No.

14.3.3 Instruction for Declaration and Labelling :

(Packing sizes with possible exemptions not considered)

Proper Shipping Name : SOLIDS, CONTAINING FLAMMABLE LIQUID, n.o.s. (contains ETHANOL)

Risk Label : 4.1

14.3.4 Remarks : None.

14.4 Classification for Transportation by Aeroplane according to IATA-DGR/ICAO-TI

Remarks :

Class : 4.1 UN-No. : 3175 Packing Group : II

14.4.1 Instruction for Declaration and Labelling :

(Packing sizes with possible exemptions not considered)

Proper Shipping Name : SOLIDS, CONTAINING FLAMMABLE LIQUID, n.o.s. (contains ETHANOL)

Risk Label : 4.1

Packing Instructions, Passenger : 415 Cargo : 417

14.4.2 Remarks :

15 Regulatory Information

15.1 Classification according to EC-Regulations : Yes

Applicable Exemptions : Yes.

up to 125ml no R –and S phrases on label required

Hazard Identification : Highly flammable.

Hazard Symbol(s) :

Component(s) :

R-Phrases :

R 11: Highly flammable

S-Phrases :

(S 2: Keep out of reach of children.)

S 7: Keep container tightly closed.

S 16: Keep away from sources of ignition - No smoking.

(S 46: If swallowed, seek medical advice immediately and show container or label)

Additional Markings :

The safety phrases S2 and S46 and tactile warning of danger according to DIN EN 272 are obligatory for all preparations sold to the general public

Further EC – regulations:

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents No

EC – Directive 1999/13 (VOC) VOC g / kg: ~ 900

EC – Directive 2004/42 (VOC) VOC g / kg: not applicable

15.1.1 The above mentioned classification is valid for distribution to: Professional use and private consumer. Labelling (formats, exemptions, additional markings) has to be done according to respective regulations.

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16 Other Information

R-phrase(s):

R 11: Highly flammable.

Further information to work out the Data sheet:

Data of the producer.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.