

TRANSFORMAGEL™

ORANGE TO COLOURLESS INDICATING SILICA GEL

Prepared according to EU No. 1907/2006 Annex II

as amended by No. 453/2010

Issue No. 02

Revision Date: 17th May 2011

[1] Product identification:

- 1.1 Product Identifier:** TRANSFORMAGEL™ Indicating Silica Gel
1.2 Relevant Use: Moisture Scavenger and Drying Agent
1.3 Supplier: Baltimore Innovations Limited, Innovations House, Jacksons Business Park, Wessex Road, Bourne End, Bucks, SL8 5DT, UK
Website: www.baltimoreinnovations.co.uk
Email: safety@baltimoreinnovations.co.uk
Telephone: + 44 (0)1628 531900
Fax: + 44 (0)1628 531100
1.4 Emergency Telephone: + 44 (0)7713 505942

[2] Health Hazard Info:

- 2.1 Classification**
Not classified
2.2 Label Elements
None
2.3 Other Hazards
Not applicable

[3] Composition:

- 3.1 Substances**
Not applicable
3.2 The mixture contains:
Indicating Silica Gel Desiccant: Orange to Colourless Colour Change
Description: Synthetic Amorphous Silica
CAS No: 7631-89-9
EINECS: 231-545-4
Description: Iron Sulphate (Indicating Agent)
CAS: 7720-78-7
EINECS: 231-753-5

[4] First Aid Measures: [CONTINUED PAGE 2]

4.1 Description of first aid measures

Inhalation: Seek fresh air. If symptoms persist, then consult a doctor.

Skin Contact: Wash immediately with soap & water, and remove effected clothing. If symptoms persist, then consult a doctor.

Eye Contact: Rinse immediately with copious water for 15 minutes holding the eyelids open. If symptoms persist, then consult a doctor.

Ingestion: Do not induce vomiting. If quantity ingested is high or if symptoms appear consult a doctor.

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[4] First Aid Measures: [CONTINUED FROM PAGE 3]

4.2 Important symptoms and effects, both acute and delayed

Inhalation: May cause irritation to the respiratory tract, and may be accompanied by coughing and chest discomfort.

Skin Contact: May cause irritation to the skin.

Eye Contact: May cause irritation to the eyes.

Ingestion: May cause irritation to mucus membranes.

4.3 Special treatment needed

If inhalation has occurred move the exposed person to fresh air and then consult a doctor for this, similarly for skin contact wash immediately with soap & water, eye contact rinse with copious water for 15 minutes and ingestion do not induce vomiting but if irritation continues for this or any of the other above symptoms persist consult a doctor.

[5] Fire Fighting Measures:

5.1 Extinguishing media

Use what is appropriate to the surrounding fire conditions.

5.2 Special hazards arising

None

5.3 Advise for fire fighters

You are advised to wear suitable respiratory equipment if necessary.

[6] Accidental Release Info:

6.1 Personal Precautions, protective equipment and emergency procedures

Do not inhale the dust. Use anti-dust mask with P2 particles filter

6.2 Environmental Precautions

Product Practically insoluble but inform local water authority if large quantity is in contact with water.

6.3 Methods and material for containment and cleaning up.

Mechanical collection of the material avoiding creating dust.

6.4 Reference to other sections

Not applicable

[7] Handling and storage: [CONTINUED PAGE 3]

7.1 Precautions for safe handling

Suction any dust created. Do not smoke. During handling electrostatic charges can accumulate.

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[7] Handling and storage: [CONTINUED FROM PAGE 2]

7.2 Conditions for safe storage, including any incompatibilities

To maintain quality and performance keep the containers tightly closed in a cool, dry, well ventilated area.

7.3 Specific end use Not applicable

[8] Personal Protection:

8.1 Control parameters

8.2 Exposure controls

Breathing Protection:	None required at atmospheric temperature.
Hand Protection:	Use chemical resistant gloves
Eye Protection	Use protective glasses and goggles if hot.
Protective Equipment::	Wear protective clothing
Skin Protection:	Wear sensible industrial clothing wash regularly.

[9] Physical Properties:

9.1 Information on basic physical and chemical properties

(a) Appearance:	Orange (dry) Colourless (saturated) beads.
(b) Odour:	Odourless.
(c) Odour Threshold:	Not applicable
(d) pH:	3.5 – 7.0
(e) Melting Point:	Over 1000 C
(f) Initial boiling point & range:	Not applicable.
(g) Flash Point:	Not applicable.
(h) Evaporation Rate:	Not applicable
(i) Flammability:	Not applicable
(j) Explosive Limits:	Not applicable.
(k) Vapour Pressure:	Not applicable.
(l) Vapour Density:	700-750 Kg / m ³ (Typical)
(m) Relative Density:	2.2 kg/dm ³ .
(n) Water Solubility:	less than 1.0% in weight
(o) Partition coefficient:	Not applicable
(p) Auto-Ignition Temperature:	Not applicable
(q) Decomposition Temperature:	Stable except when saturated.
(r) Viscosity @ 25deg C :	Not applicable
(s) Explosive Properties:	Not applicable
(t) Oxidising Properties:	Not applicable

9.2 Other Information None Available

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[10] Stability / Reactivity:

- 10.1 Reactivity** Not applicable
- 10.2 Chemical Stability**
Stable under normal conditions
- 10.3 Possibility of hazardous reactions** Not applicable
- 10.4 Conditions to avoid**
Humid air and high temperatures.
- 10.5 Incompatible materials**
Hydrofluoric acid and other dangerous decomposition products
- 10.6 Hazardous decomposition products**
Hygroscopic material.

[11] Toxicological info:

11.1 Information on toxicological effects

- (a) Acute Toxicity:
- | | | |
|--------|------------------|--------|
| Oral | LD > 10,000mg/kg | rat |
| Dermal | LD > 5,000 mg/kg | rabbit |
- (b) Irritation: eye and mucus membranes
- (c) Corrosivity: Not applicable
- (d) Sensitisation: Not applicable
- (e) Repeated dose toxicity: Not applicable
- (f) Carcinogenicity: Not applicable
- (g) Mutagenicity: No data
- (h) Toxicity for reproduction: No data

[12] Ecological Info:

- 12.1 Toxicity** Not applicable
- 12.2 Persistence and degradability** Not applicable
- 12.3 Bioaccumulative potential** Not applicable
- 12.4 Mobility in soil** Not applicable
- 12.5 Results of PBT and vPvB assessment** Not applicable
- 12.6 Other adverse effects** Not applicable

[13] Disposal Considerations:

13.1 Waste treatment methods

Dispose of this material in accordance with local and national regulations. Do not allow product to enter into drains.

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[14] Transportation Information:

14.1 UN Number	Not applicable
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es)	
This product is not classified as dangerous for carriage.	
14.4 Packing group	Not applicable
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	Not applicable
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable

[15] Regulatory Info:

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Not applicable

15.2 Chemical Safety Assessment

This product is classified as 'NSH' – No Significant Hazard.
Chemical Safety Assessment Report, has not been carried out.

[16] Other Information:

We hope the other information given here will be helpful. It is based on data and knowledge, which we believe to be true and accurate and is offered for your consideration, investigation and verification. Accordingly, save in the event of gross negligence or wilful misconduct of our agents and ourselves we will not be liable for any damages resulting from errors, omissions or non-compliance of the information set forth herein. Further, please read all statements, recommendations or suggestions in conjunction with our General Conditions of Delivery, Performance and Payment, which limit our liability with respect to all goods, supplied by us. Test methods are available on request.

END OF DATASHEET