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Revision 02

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## SAFETY DATA SHEET

### KRYCELL – SNOW POWDERS

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1. Product identifier

Product name Krycell; - Snow Powder

REACH Registration number 01-2119529246-39-XXXX

REACH Registration notes mono-constituent substance

CAS-No. 21645-51-2

EC No. 244-492-7

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

Filler for modeller's water based snow effects liquids.

Filler for modellers cast plastic resins

Uses advised against any use other than those identified. NONE.

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

Precision Ice and Snow

Hartlebury Trading Estate

7 Meadow Cottages

Moors Avenue

Hartlebury

Worcestershire

DY11 7YL

United Kingdom

Tel- UK- 44 (0) 1299 251 497

Email- [info@precisioniceandsnow.com](mailto:info@precisioniceandsnow.com)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Classification (EC 1272/2008, CLP)

Physical and Chemical Hazards Not classified

Human health. Not classified

Environment. Not classified

Classification (67/548/EEC) Not classified.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Human health: Not a health hazard under normal conditions of use and as delivered. High dust concentrations may cause mechanical irritation of the eyes, skin and respiratory tract.

Environment: The product is not expected to be hazardous to the environment.

Physical and Chemical Hazards: Releases humidity upon decomposition, do not heat in closed containers.

### 2.2. Label elements

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EC No. 244-492-7

Label In Accordance With (EC) No. 1272/2008

No pictogram required.

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Precautionary Statements

P261 Avoid breathing dust.

P285 In case of inadequate ventilation wear respiratory protection.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P402 Store in a dry place.

### 2.3. Other hazards

Not Classified as PBT/vPvB by current EU criteria.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

CAS-No.: 21645-51-2 EC No.: 244-492-7

Classification (67/548/EEC)

Not classified.

Classification (EC 1272/2008)

Not classified.

Registration Number: 01-2119529246-XXXX

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

REACH Registration number 01-2119529246-39-XXXX

REACH Registration notes mono-constituent substance

CAS-No. 21645-51-2

EC No. 244-492-7

Gross Formula AlH3O3

Ingredient notes All substances contained in this product have been notified to the Classification and Labelling (C&L) Inventory.

Composition Comments. This product does not contain any hazardous ingredients, or ingredients with national workplace exposure limits.

#### SECTION 4: FIRST AID MEASURES

##### 4.1. Description of first aid measures

Inhalation: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion: Rinse mouth thoroughly and give plenty of water to drink. Seek medical advice if necessary.

Skin contact: Clean by mechanical dry removal. Subsequently rinse with water.

Eye contact immediately flush with plenty of water or eyewash solution for up to 10 minutes. Contact physician if irritation persists.

##### 4.2. Most important symptoms and effects, both acute and delayed

None.

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##### 4.3. Indication of any immediate medical attention and special treatment needed

None

#### SECTION 5: FIREFIGHTING MEASURES

##### 5.1. Extinguishing media

Extinguishing media: The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: None

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##### 5.2. Special hazards arising from the substance or mixture

None.

##### 5.3. Advice for firefighters

None.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

##### 6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing (see Section 8). Avoid inhalation of dust.

##### 6.2. Environmental precautions

No special environmental precautions required.

##### 6.3. Methods and material for containment and cleaning up

Take up mechanically. Dispose of absorbed material in accordance within local regulations.

##### 6.4. Reference to other sections

For waste disposal, see section 13.

#### SECTION 7: HANDLING AND STORAGE

##### 7.1. Precautions for safe handling

Advise on safe handling Avoid inhalation of dust and contact with skin and eyes.

Advice on fire and explosion protection: Not applicable.

##### 7.2 Conditions for safe storage, including any incompatibilities

Dry storage at moderate temperatures

##### 7.3. Specific end use(s)

See product information

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Name STD TWA - 8 Hrs STEL - 15 Min Notes

Ingredient Comments

No exposure limits noted for ingredient(s). COSHH - see note in section 16.

(CAS: 21645-51-2)

DNEL

Industry Inhalation. Long Term

Consumer Oral Long Term

Local Effects

Systemic Effects

3.59 mg/m<sup>3</sup>

2.37 mg/kg/day

PNEC

Freshwater 74.9 µg/l

STP 20 mg/l

### 8.2. Exposure controls

Technical: Avoid dust formation.

Engineering measures Provide adequate general and local exhaust ventilation.

Respiratory equipment. If ventilation is insufficient, suitable respiratory equipment must be provided.

Hand protection Wear suitable protective gloves conforming to EN 374.

Eye protection Wear approved safety goggles.

Other Protection Provide eyewash station and safety shower.

Hygiene measures. When using do not eat, drink, or smoke.

Environmental No special exposure controls required.

## KRYCELL – SNOW POWDERS

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance Powder, dust.

Composition- Inorganic compound

Colour White.

Odour Odourless.

Solubility Insoluble.

Initial boiling point and boiling range (°C) 2980°C at 760 mmHg.

Melting point (°C) decomposes before melting at > 200°C.

Relative density 2.44 @ 20°C.

Solubility Value (G/100G) 0.000009.

(N-Octanol/Water) Scientifically unjustified.

Explosive properties non explosive.

#### 9.2. Other information

Particle Size (Micron) variable.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No specific reactivity hazards associated with this product.

### 10.2. Chemical stability

Stable under normal conditions of storage and use. See section 7. Dehydrates upon heating above 200°C.

### 10.3. Possibility of hazardous reactions

Not determined.

Hazardous Polymerisation. Will not polymerise.

### 10.4. Conditions to avoid

Temperatures > 200°C

### 10.5. Incompatible materials

Materials to Avoid- Strong acids, Bases, alkalis (inorganic).

### 10.6. Hazardous decomposition products

No hazardous decomposition products.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Toxic Dose 1 - LD 50 >5000 mg/kg (oral rat)

Toxic Conc. - LC 50 >2.3 mg/l/4h (inh-rat)

Acute Toxicity

Oral LD50 > 2000 mg/kg Rat.

Dermal LD50 Scientifically unjustified.

Inhalation LC50 > 2.3 mg/l (dust/mist) Rat 4 hours

Respiratory or skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) Not Sensitising.

Germ cell mutagenicity

Genotoxicity - In Vitro Gene Mutation Negative.

Genotoxicity - In Vivo Chromosome aberration Negative.

Reproductive Toxicity

Reproductive Toxicity - Fertility One-generation study NOAEL 1000 mg/kg/day Oral Rat F1

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Specific target organ toxicity - repeated exposure

STOT NOAEL 302 mg/kg Inhalation. Rat.

Respiratory System - Lungs Morphological changes that are potentially reversible but provide clear evidence of marked organ dysfunction.

Inhalation Dust may irritate respiratory system or lungs. Fine particles may penetrate the lungs. See note about control of dusts in section 16.

Ingestion Gastrointestinal symptoms, including upset stomach.

Skin contact.

Not a skin sensitiser. Skin irritation is not anticipated when used normally.

Eye contact Irritating and may cause redness and pain.

## SECTION 12: ECOLOGICAL INFORMATION

### Eco toxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

#### 12.1. Toxicity

Owing to the extremely low solubility in water, the toxic levels could not be reached.

#### Acute Toxicity

Fish LC50 96 hours > 100 mg/l Freshwater fish

Aquatic Invertebrates EC50 48 hours > 100 mg/l Daphnia magna

Aquatic Plants IC50 72 hours > 100 mg/l Scenedesmus subspicatus

#### 12.2. Persistence and degradability

##### Degradability

The product solely consists of inorganic compounds which are not biodegradable.

#### 12.3. Bio accumulative potential

Bio accumulative potential. The product solely consist of inorganic compounds which are not biodegradable.

#### 12.4. Mobility in soil

Not applicable.

#### 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

#### 12.6. Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS- Not applicable.

#### 13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

## SECTION 14: TRANSPORT INFORMATION

General The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable

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#### 14.3. Transport hazard class(es)

None

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

None

## SECTION 15: REGULATORY INFORMATION

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

#### Statutory Instruments

Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 SI No 716. (CHIP4).

Control of Substances Hazardous to Health Regulations (as amended). (COSHH)

Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007. (CDG 2009)

Management of Health & Safety at Work Regulations 1999.

#### Approved Code of Practice

The Control of Substances Hazardous to Health Regulations 2002 (as amended). Approved code of practice and guidance.

Fifth Edition 2005. HSE Books, or download at: <http://www.hse.gov.uk/pubns/priced/l5.pdf>

Approved Classification and Labelling guide (Sixth edition). Chemicals (Hazard Information and Packaging for Supply)

Regulations 2009 (CHIP 4). HSE Books, or download at: <http://www.hse.gov.uk/pubns/books/l131.htm>

#### Guidance Notes

Workplace Exposure Limits EH40/2007 (as amended).

#### EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the

Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals

Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation

(EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC,

and amending Regulation (EC) No 1907/2006 with amendments.

ADR (L'Accord Europeen relative au transport international des marchandises dangereuses par route.)

### 15.2. Chemical Safety Assessment

A chemical safety assessment has been carried out.

#### 14.6. Special precautions for user

See section 6 and 8

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No hazardous goods

## SECTION 16: OTHER INFORMATION

#### Information Sources

All data cited from Manufacturer's REACH Registration Dossier.

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Precision Ice and Snow, Hartlebury Trading Estate, 7 Meadow Cottages, Moors Avenue, Hartlebury

Worcestershire DY11 7YL United Kingdom Tel- UK- 44 (0) 1299 251 497

Email- [info@precisioniceandsnow.com](mailto:info@precisioniceandsnow.com)