

SAFETY DATA SHEET THAW

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product

identifier

Product name THAW

Product number

Internal

C102

identification C102

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

Identified uses De-icing granules 1.3. Details of the supplier of the safety data

sheet

Supplier PAKEX (UK) PLC

1 PRIME POINT BESSEMER ROAD WELWYN GARDEN CITY

HERTS AL7 1FE

TEL: +44 (0)1707 384858 FAX: +44 (0)1707 332838 sales@pakexuk.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 1707 384858

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classificatio

n

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards

2.2. Label elements

Not Classified

Hazard statements NC Not Classified

Supplemental label

information

EUH210 Safety data sheet available on request.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

UREA 60-100%

CAS number: 57-13-6 EC number: 200-315-5 REACH registration number: 01-

2119463277-33-XXXX

Classification Classification (67/548/EEC or 1999/45/EC)

Not Classified -

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

SECTION 4: First aid measures

4.1. Description of first aid

measures

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing.

Ingestion Get medical attention. Do not induce vomiting. Rinse mouth thoroughly with water.

Skin contact Rinse immediately with plenty of water.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort

continues.

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

Inhalation Coughing, chest tightness, feeling of chest pressure.

Ingestion May cause discomfort if swallowed.

Skin contact Product has a defatting effect on skin. Prolonged contact may cause dryness of the skin.

Eye contact May cause discomfort.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion Thermal decomposition or com

products 5.3. Advice for firefighters Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO2). Nitrous gases (NOx).

Protective actions

during No specific firefighting precautions known.

firefighting

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Avoid contact with skin, eyes and clothing. Avoid inhalation of dust. Provide adequate ventilation. Wash thoroughly after dealing with a spillage.

6.2. Environmental precautions

Environmental precautions Avoid discharge to the aquatic environment. Avoid discharge into drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Avoid generation and spreading of dust. Collect and place in suitable waste disposal containers

and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautionsWear suitable protective equipment, including gloves, goggles/face shield, respirator, boots,

clothing or apron, as appropriate. Avoid handling which leads to dust formation. Avoid inhalation of dust and contact with skin and eyes. Do not empty into drains. Do not eat, drink

or smoke when using this product. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store at temperatures between 0°C and 30°C. Store in tightly-closed, original container in a

dry and cool place.

Storage class 7.3. Specific end

use(s)

Chemical storage.

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

8.2. Exposure

controls Protective

equipment



Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if

a risk assessment indicates skin contact is possible. Neoprene. Nitrile rubber. Polyethylene. Polyvinyl chloride (PVC). To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 4 hours. The breakthrough time for any glove material may be different for different glove manufacturers. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any

deterioration is detected.

Hygiene measures Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Granules.

Colour White.

Odour Mild. Ammonia.

pH (diluted solution): ~9.5 @ 10%w/w

Melting point ~ 132°C

Bulk density 1.33 kg/m³

Solubility(ies) Completely soluble in water.

9.2. Other information

Molecular weight 60.06

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The following materials may react with the product: Acids. Alkalis. Inorganic nitrates.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous

reactions

Possibility of hazardous Not determined.

reactions

10.4. Conditions to

avoid

Conditions to avoid 10.5. Incompatible

materials

Avoid excessive heat for prolonged periods of time.

Materials to avoid Strong acids. Strong alkalis. Inorganic nitrates.

10.6. Hazardous decomposition

products

Hazardous

decompositionThermal decomposition or combustion products may include the following substances:productsAmmonia or amines. Carbon monoxide (CO). Carbon dioxide (CO2). Nitrous gases (NOx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation Dust may irritate the respiratory system.

Revision date: 25/09/2015 Revision: 2.1 Supersedes date: 12/11/2012

THAW

Ingestion May cause discomfort if swallowed.

Skin contact Prolonged contact may cause dryness of the skin. Dust may cause slight irritation.

Eye contact May cause discomfort.

Toxicological information on ingredients.

UREA

Acute toxicity - oral

Acute toxicity oral (LD_{5 0} 14,300.0

mg/kg)

Species Rat

ATE oral

(mg/kg) 14,300.0

SECTION 12: Ecological Information

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

Acute toxicity - fish Not determined.

Ecological information on ingredients.

UREA

Acute toxicity - fish LC_{5 0}, 96 hours: >6810 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic

plants

NOEC, 192 hours: 47 mg/l, Freshwater algae

12.2. Persistence and degradability

Persistence and degradability
The product is expected to be biodegradable.

Ecological information on ingredients.

UREA

Persistence and degradability

Expected to be readily biodegradable.

Biodegradation

dation - Degradation 96%: 16 days

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Ecological information on ingredients.

UREA

Partition coefficient log Pow: -1.73

12.4. Mobility in soil

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

Revision date: 25/09/2015 Revision: 2.1 Supersedes date: 12/11/2012

THAW

Ecological information on ingredients.

UREA

Results of PBT and vPvB This substance is not classified as PBT or vPvB according to current EU criteria. assessment

12.6. Other adverse effects

Other adverse effects

Not determined.

Ecological information on

ingredients.

UREA

Other adverse effects Not determined.

SECTION 13: Disposal

considerations

13.1. Waste treatment methods

Disposal methods

Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation

any local authority requirements.

SECTION 14: Transport information

The product is not covered by international regulations on the transport of dangerous

(IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

General

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard

class(es) Transport labels

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

Annex II of MARPOL

73/78 and the IBC Code

SECTION 15: Regulatory information

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

National regulations

EU legislation Commission Regulation (EU) No 453/2010 of 20 May 2010.

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 (as

amended).

Guidance Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

SECTION 16: Other information

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 25/09/2015

Revision 2.1

Supersedes date 12/11/2012

Risk phrases in full Not classified.

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