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

1.1. Product identifier

Product name  ULTRA QUARTZ CRYSTAL

Product number  13550

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

Identified uses  Aggregate

Uses advised against  No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier  ITW Performance Polymers
Bay 150
Shannon Industrial Estate
Co. Clare
Ireland
V14 DF82
353(61)771500
353(61)471285
mail@itwpp.com

1.4. Emergency telephone number

Emergency telephone  +44(0)1235 239 670 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards  Not Classified

Health hazards  STOT RE 1 - H372

Environmental hazards  Not Classified

2.2. Label elements

Pictogram

Signal word  Danger

Hazard statements  H372 Causes damage to organs (Respiratory system, lungs) through prolonged or repeated exposure.
ULTRA QUARTZ CRYSTAL

Precautionary statements

P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P260 Do not breathe dust.
P314 Get medical advice/attention if you feel unwell.
P501 Dispose of contents/container in accordance with national regulations.

Contains

Crystalline Silica (Quartz)

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

<table>
<thead>
<tr>
<th>Crystalline Silica (Quartz)</th>
<th>5-10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 14808-60-7</td>
<td>EC number: 231-545-4</td>
</tr>
<tr>
<td>Classification</td>
<td>Carc. 1A - H350</td>
</tr>
</tbody>
</table>

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Inhalation
Move affected person to fresh air at once. For breathing difficulties, oxygen may be necessary. Get medical attention if any discomfort continues.

Ingestion
Do not induce vomiting. Drink a few glasses of water or milk. Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately.

Skin contact
Immediately remove contaminated clothing. Remove affected person from source of contamination. Wash skin thoroughly with soap and water. Continue to rinse for at least 15 minutes. Rinse with water. Get medical attention if any discomfort continues.

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 immediately. Continue to rinse.

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

General information
The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

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

Notes for the doctor
No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
The product is non-combustible.

5.2. Special hazards arising from the substance or mixture

Specific hazards
This product does not sustain combustion.
5.3. Advice for firefighters

**Protective actions during firefighting**
In confined or poorly-ventilated spaces, a supplied-air respirator must be worn. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

**Special protective equipment for firefighters**
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions**
Do not touch or walk into spilled material. Do not breathe vapour. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation.

6.2. Environmental precautions

**Environmental precautions**
Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

**Methods for cleaning up**
Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

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 precautions**
Provide adequate ventilation. Do not breathe vapour. Avoid contact with skin and eyes. Eliminate all sources of ignition. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions**
Keep away from heat, sparks and open flame. Avoid exposure to high temperatures or direct sunlight. Avoid contact with the following materials: Acids. Oxidising agents. Store in tightly-closed, original container in a dry and cool place. Keep container tightly closed.

7.3. Specific end use(s)

**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

**Ingredient comments**
No exposure limits known for ingredient(s).

8.2. Exposure controls

**Protective equipment**

[Images of protective equipment: sunglasses, gloves, and face mask]
ULTRA QUARTZ CRYSTAL

Appropriate engineering controls
Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection
Wear tight-fitting, chemical splash goggles or face shield. 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. To protect hands from chemicals, gloves should comply with European Standard EN374. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

Other skin and body protection
Wear apron or protective clothing in case of contact.

Hygiene measures
Provide eyewash station and safety shower. Wash hands after contact. Wash at the end of each work shift and before eating, smoking and using the toilet.

Respiratory protection
If ventilation is inadequate, suitable respiratory protection must be worn. Wear a suitable dust mask. Ensure all respiratory protective equipment is suitable for its intended use and is ‘CE’-marked. Wear a respirator fitted with the following cartridge: Particulate filter, type P3.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties
Appearance
Crystalline powder.

Colour
Grey. Tan.

Odour
Almost odourless.

pH
pH (diluted solution): Neutral 5% Solution

Initial boiling point and range
>260°C @

Vapour pressure
0.03 mm Hg @ °C

Vapour density
>1

9.2. Other information
Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity
There are no known reactivity hazards associated with this product.

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

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions
Not available.

10.4. Conditions to avoid
Conditions to avoid
Avoid handling which leads to dust formation. Avoid generation and spreading of dust.

10.5. Incompatible materials
Materials to avoid
ULTRA QUARTZ CRYSTAL

10.6. Hazardous decomposition products

Hazardous decomposition products
No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation
Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. Dust may irritate the eyes and the respiratory system.

Ingestion
Gastrointestinal symptoms, including upset stomach.

Skin contact
This product is moderately irritating.

Eye contact
This product is moderately irritating.

Acute and chronic health hazards
Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

Route of entry
Skin and/or eye contact

SECTION 12: Ecological Information

Ecotoxicity
Avoid releasing into the environment.

12.1. Toxicity
Toxicity
Not considered toxic to fish.

12.2. Persistence and degradability
Persistence and degradability
There are no data on the degradability of this product.

12.3. Bioaccumulative potential
Bioaccumulative potential
No data available on bioaccumulation.

12.4. Mobility in soil
Mobility
Do not discharge into drains or watercourses or onto the ground.

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.

12.6. Other adverse effects
Other adverse effects
Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
General information
When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods
Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Waste class
08 04 99

SECTION 14: Transport information
ULTRA QUARTZ CRYSTAL

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

14.1. UN number
No information required.

14.2. UN proper shipping name
No information required.

14.3. Transport hazard class(es)
No information required.

14.4. Packing group
No information required.

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user
No information required.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No information required.

SECTION 15: Regulatory information

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

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date
04/04/2018

Revision
5

Supersedes date
13/01/2017

Hazard statements in full
H350 May cause cancer.
H372 Causes damage to organs (Respiratory system, lungs) through prolonged or repeated exposure.

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 process. Such information is, to the best of the company’s knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.