Revision Date 26/08/2011
Revision 5
Supersedes date 11/03/2011

SAFETY DATA SHEET
ULTRA QUARTZ HARDENER

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

1.1. Product identifier

Product name ULTRA QUARTZ HARDENER

Product No. 13550

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

Identified uses Hardener.

1.3. Details of the supplier of the safety data sheet

Supplier

ITW DEVCON
BAY 150
SHANNON INDUSTRIAL ESTATE
SHANNON
CO CLARE
IRELAND
T: +353 (0)61471299
F: 353(0)61471285
info@itwppe.eu

1.4. Emergency telephone number

+44 (0) 1235 239670

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Xn;R20/21/22. Repr. Cat. 3;R62, R63. C;R34. R43. N;R50/53.

2.2. Label elements

Contains

BENZYL ALCOHOL
ISOPHORONEDIAMINE
NONYLPHENOL

Labelling

Corrosive

Harmful

Dangerous for the environment

Risk Phrases

R34	Causes burns.
R43	May cause sensitisation by skin contact.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R62	Possible risk of impaired fertility.
R63	Possible risk of harm to the unborn child.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

S25	Avoid contact with eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S51	Use only in well-ventilated areas.

S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S57	Use appropriate containment to avoid environmental contamination.
S60	This material and its container must be disposed of as hazardous waste.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

2-PIPERAZIN-1-YLETHYLAMINE — 10-30%

CAS-No.: 140-31-8 EC No.: 205-411-0

Classification (EC 1272/2008)	Classification (67/548/EEC)
Acute Tox. 4 - H302	C;R34
Acute Tox. 4 - H312	Xn;R21/22
Skin Corr. 1B - H314	R43
Skin Sens. 1 - H317	R52/53
Aquatic Chronic 3 - H412	

BENZOIC ACID, 2-HYDROXY-(SALICYCLIC ACID) — 1-10%

CAS-No.: 69-72-7 EC No.:

Classification (EC 1272/2008)	Classification (67/548/EEC)
Not classified.	Xn;R22. Xi;R36/37/38,R41.

BENZYL ALCOHOL — 10-30%

CAS-No.: 100-51-6 EC No.: 202-859-9

Classification (EC 1272/2008)	Classification (67/548/EEC)
Acute Tox. 4 - H302	Xn;R20/22
Acute Tox. 4 - H332	

ISOPHORONEDIAMINE — 10-30%

CAS-No.: 2855-13-2 EC No.: 220-666-8

Classification (EC 1272/2008)	Classification (67/548/EEC)
Acute Tox. 4 - H302	C;R34
Acute Tox. 4 - H312	Xn;R21/22
Skin Corr. 1B - H314	R43
Skin Sens. 1 - H317	R52/53
Aquatic Chronic 3 - H412	

NONYLPHENOL — 30-60%

CAS-No.: 25154-52-3 EC No.: 246-672-0

Classification (EC 1272/2008)	Classification (67/548/EEC)
Acute Tox. 4 - H302	Repr. Cat. 3;R62,R63
Skin Corr. 1B - H314	C;R34
Repr. 2 - H361fd	Xn;R22
Aquatic Acute 1 - H400	N;R50/53
Aquatic Chronic 1 - H410	

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

General information

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

Inhalation

Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. Get medical attention.

Ingestion

DO NOT INDUCE VOMITING! Drink a few glasses of water or milk. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention immediately!

Skin contact

Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. 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 dependant of the concentration and the length of exposure.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards

Explosive when mixed with oxidising substances.

Specific hazards

When heated and in case of fire, harmful vapours/gases may be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-figthers

Warn everybody of potential hazards and evacuate if necessary. Keep upwind. Avoid contact with skin and eyes. Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

DO NOT TOUCH SPILLED MATERIAL! If leakage cannot be stopped, evacuate area. Eliminate all sources of ignition. Ventilate well.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Absorb spillage with suitable absorbent material. Transfer to a container for disposal. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

6.4. 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

Avoid contact with skin and eyes. In case of inadequate ventilation use suitable respirator. Do not eat, drink or smoke when using the product. Wash hands after contact. Wash at the end of each work shift and before eating, smoking and using the toilet. Discard contaminated shoes and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Do not store near heat sources or expose to high temperatures. Store away from: Acids. Alkalis. Avoid contact with strong oxidisers. Store in tightly closed original container in a dry, cool and well-ventilated place.

7.3. 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 noted for ingredient(s).

8.2. Exposure controls

Protective equipment

Process conditions

Provide eyewash, quick drench.

Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Must not be handled in confined space without sufficient ventilation.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

Hand protection

Use protective gloves. Neoprene. Butyl rubber. Nitrile.

Eye protection

Wear tight-fitting goggles or face shield.

Hygiene measures

Wash hands after contact. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Skin protection

Wear apron or protective clothing in case of splashes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid.
Colour	Amber.
Odour	Fishy.
Initial boiling point and boiling range	200

Relative density	0.99
Vapour density (air=1)	>1
Vapour pressure	<10.34 mm Hg 21
Evaporation rate	<<1
pH-Value, Diluted Solution	Alkaline 5% Solution

9.2. Other information

Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Acids. Alkalis. Strong reducing agents. Strong oxidising agents. Reactive metals Amines. Peroxides

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not available.

10.4. Conditions to avoid

Unsuitable containers: copper, zinc, aluminium, copper alloy, zinc alloy, aluminium alloy.

10.5. Incompatible materials

Materials To Avoid

Acids - organic. Alkalis. Reducing Agents. Avoid contact with oxidising agents. Reactive Metals. Sodium and Calcium Hypochlorite Amines. Peroxides

10.6. Hazardous decomposition products

Oxides of: Carbon. Nitrogen. Ammonia or amines. Nitric acid (HNO3). Aldehydes. In case of fire, toxic gases (CO, CO2, NOx) may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxic Dose 1 - LD 50 1000 mg/kg (oral rat)

Inhalation

May cause irritation to the respiratory system. Vapours irritate the respiratory system, and may cause coughing and difficulties in breathing. Coughing, chest tightness, feeling of chest pressure. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

Ingestion

The product causes irritation of mucous membranes and may cause abdominal discomfort if swallowed. Harmful: may cause lung damage if swallowed. Swallowing concentrated chemical may cause severe internal injury. Drowsiness, dizziness, disorientation, vertigo. Headache. Nausea, vomiting.

Skin contact

Corrosive. Prolonged contact causes serious tissue damage. Severe skin irritation. May cause serious chemical burns to the skin. May be absorbed through the skin.

Eye contact

Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative. Irritation, burning, lachrymation, blurred vision after liquid splash. May cause temporary blindness and severe eye damage.

Route of entry

Skin and/or eye contact. Skin absorption. Ingestion. Inhalation.

Medical Considerations

Skin disorders and allergies. Pre-existing eye problems.

Name	**2-PIPERAZIN-1-YLETHYLAMINE**
Toxic Dose 1 - LD 50	1470-2140 mg/kg (oral rat)

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Avoid release to the environment. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.1. Toxicity

Acute Fish Toxicity

Very toxic to aquatic organisms.

12.2. Persistence and degradability

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, water courses or onto the ground.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1. Waste treatment methods

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

Waste Class

08 04 99

SECTION 14: TRANSPORT INFORMATION

General	No other information noted.

14.1. UN number

UN No. (ADR/RID/ADN)	2922
UN No. (IMDG)	2922
UN No. (ICAO)	2922

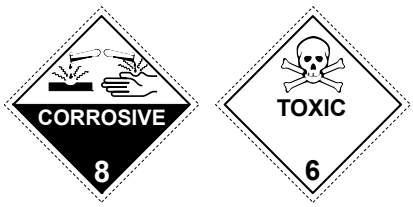
14.2. UN proper shipping name

Proper Shipping Name	CORROSIVE LIQUID, TOXIC, N.O.S. (ISOPHORONEDIAMINE, NONYLPHENOL)

14.3. Transport hazard class(es)

ADR/RID/ADN Class	8
ADR/RID/ADN Class	Class 8: Corrosive substances.
ADR Label No.	8 & 6.1
IMDG Class	8
ICAO Class/Division	8
ICAO Subsidiary risk	6.1

Transport Labels



14.4. Packing group

ADR/RID/ADN Packing group	III
ICAO Packing group	III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

EMS	F-A, S-B
Emergency Action Code	2X
Hazard No. (ADR)	86

14.7. Transport in bulk according to Annex II of MARPOL73/78 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

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.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Date	26/08/2011
Revision	5
Supersedes date	11/03/2011
Date	26/08/2011

Risk Phrases In Full

R34	Causes burns.
R20/22	Harmful by inhalation and if swallowed.
R22	Harmful if swallowed.
R21/22	Harmful in contact with skin and if swallowed.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R36/37/38	Irritating to eyes, respiratory system and skin.
R43	May cause sensitisation by skin contact.
R63	Possible risk of harm to the unborn child.
R62	Possible risk of impaired fertility.
R41	Risk of serious damage to eyes.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Statements In Full

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H361fd	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

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.