

# Safety Data Sheet

Revision Date: 22-Jan-16

PAGE 1 OF 9  
MSDS181/REV04

## 1. PRODUCT AND COMPANY IDENTIFICATION

**TRADE NAME:** NCS Ultracure AC 1

### MANUFACTURER / SUPPLIERS

DURBAN HEAD OFFICE TEL 031 713 0600 9 Pineside Road, New Germany 3610  
FAX 031 705 9858

DURBAN SALES TEL 031 713 0678 42 Henwood Road, New Germany 3610

CAPETOWN TEL 021 935 1788 6 Reuben Kaye Rd, Parrow, Industria 7764

JOHANNESBURG TEL 011 451 8900 12 Plantation Road, Eastleigh, Edenvale 1610

PORT ELIZABETH TEL 041 451 2571 19 Dudley Street, Neave Township 6020

EAST LONDON TEL 043 745 2604 4 Bert Kipling Place, Wilsonia, East London 5200

**EMERGENCY TELEPHONE No.:** 031 713 0600

**SUPPLIER** AURORA GLASS FIBRE NZ LTD  
3/16 Zelianian Drive, East Tamaki  
Auckland 2013, NZ  
TEL +64 9 273-3540

**EMERGENCY TELEPHONE No.:** +64 9 273-3540

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

### Labeling

### Hazard Pictograms





ISO 14001  
compliant

# Safety Data Sheet

PAGE 2 OF 9

Revision Date: 22-Jan-16

MSDS181/REV04

**Signal word: Danger**

## Hazard statements

H226 Flammable liquid and vapour.  
H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.  
H411 Toxic to aquatic life with long lasting effects.

## Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P361 Remove/Take off immediately all contaminated clothing.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Characterization: Mixture**

**Chemical Family: Cobalt Accelerator for Unsaturated Polyesters**

Component	CAS No	Weight %
Cobalt bis (2-Ethyl Hexanoate)	CAS-136-52-7	60-80%
Xylene	CAS 1330-20-7	<70%

## 4. FIRST-AID MEASURES

### First Aid - Eyes

Immediately flood the eyes with plenty of water for at least 15 minutes, holding the eye open  
Obtain medical attention urgently.

### First Aid - Skin

Wash skin thoroughly with soap and water. Obtain medical attention if blistering occurs or redness persists.



ISO 14001  
compliant

# Safety Data Sheet

PAGE 3 OF 9

Revision Date: 22-Jan-16

MSDS181/REV04

---

## First Aid - Ingestion

Wash mouth with water. Do induce vomiting  
Obtain medical attention urgently.

## First Aid - Inhalation

Remove from exposure. Keep warm and at rest.  
If there is difficulty in breathing, give oxygen. If breathing stops or gives signs of failing, give artificial respiration. If heart beat absent, give external cardiac compression. (CPR)  
Obtain medical attention

---

## 5. FIRE - FIGHTING MEASURES

### Extinguishing Media

Dry chemical, or carbon dioxide, or dry sand should be used for small fires

Big fires are best controlled by foam.

### Special Hazard Products

Nitrogen Oxides, carbon Monoxide will be formed on combustion

### Protection For Firefighters

Wear self-contained breathing apparatus.

---

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Avoid inhalation, swallowing and contact with skin and eyes

### Environmental Precautions

Try to prevent the material from entering drains or watercourses. Advise Authorities if spillage has entered watercourses or sewer or has contaminated soil or vegetation.

### Spillages

Take precautionary measures against static discharges.



ISO 14001  
compliant

# Safety Data Sheet

PAGE 4 OF 9

Revision Date: 22-Jan-16

MSDS181/REV04

Contain or absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Dispose according to local regulations.

## 7. HANDLING AND STORAGE

Unsuitable Containers

PVC Containers

### Handling

Use in well ventilated area. Adequate ventilation should be provided if there is a risk of vapour build up.

Avoid inhaling vapour. Avoid contact with eyes, skin and clothing.

Never use air pressure to transfer material.

Containers, even those that have been emptied, can contain vapours. Do not cut, drill, weld or similar operations on or near empty containers

### Storage

Storage area should be cool and well ventilated. Store away from heat and ignition.

Storage and transfer equipment should be adequately earthed and bonded to prevent accumulation of static charges.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational Exposure Limits:

Occupational Health and Safety Act, 1993  
Regulations for Hazardous Chemical Substances, 1995 Table 2

TWA OEL RL	0.1 mg/m <sup>3</sup>	(Cobalt compounds)
TWA OEL RL	435 mg/m <sup>3</sup>	(Xylene)

### Legend

TWA -Time-weighted average

STEL - Short Term Exposure Limit

OEL - Occupational Exposure Limit

CL – Control limit for Hazardous Chemical Substances

RL – Recommended limit for Hazardous Chemical Substances



ISO 14001  
compliant

# Safety Data Sheet

PAGE 5 OF 9

Revision Date: 22-Jan-16

MSDS181/REV04

## Appropriate engineering controls

### Engineering Controls

Provide good mechanical ventilation with a non-sparking, grounded ventilation system exhausting directly to the outside, to control airborne levels below the OEL above, and separate from other exhaust ventilation systems.

Care should be taken in controlling the emission of fumes into the environment, to meet the local regulations. Electric lighting and plugs to be explosion proof. Ensure that eyewash stations and safety showers are proximal to the workstation location

### Respiratory protection

If TWA OEL RL level above is exceeded , then suitable respiratory protection must be worn.

### Hand protection

Impervious gloves. Evaluate the resistance of the product under conditions of use.

### Eye protection

Wear approved safety glasses or chemical goggles or a face shield. Have an emergency eyewash station readily available in the working area.

### Skin & body protection

Impervious gloves, coveralls, boots, and/or other resistant protective clothing. Have a safety shower/ eye wash fountain readily available in the immediate work area.

### Other protective measures

Remove contaminated clothing immediately. Keep contaminated clothing in closed containers. Discard or launder before rewearing. Inform laundry personnel of contaminated hazards

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>PHYSICAL STATE</b>	Liquid	
<b>Colour</b>	Purple	
<b>ODOUR</b>	Pungent	
<b>pH</b>	Not applicable	
<b>BOILING POINT/RANGE</b>	>154 °C	Xylene
<b>FREEZING POINT</b>	Not available	Xylene
<b>FLASH POINT</b>	27 °C	Xylene
<b>FLAMMABILITY</b>	LEL 1.1% UEL 7.0%	Xylene
<b>AUTO IGNITION TEMPERATURE</b>	Not available	Xylene
<b>EXPLOSIVE PROPERTIES</b>	LEL 1.1% UEL 7.0%	Xylene
<b>OXIDISING PROPERTIES</b>	Not available	
<b>VAPOUR PRESSURE</b>	0.72 kPa @ 20°C	Xylene
<b>DENSITY</b>	0.86 g cm-3 @ 25°C	



ISO 14001  
compliant

# Safety Data Sheet

Revision Date: 22-Jan-16

PAGE 6 OF 9  
MSDS181/REV04

**SOLUBILITY WATER**

Practically insoluble

**VAPOUR DENSITY (Air=1)**

3.5

Xylene

## 10. STABILITY AND REACTIVITY

**STABILITY**

Stable under normal storage conditions.

**CONDITIONS TO AVOID**

High temperatures.

**MATERIALS TO AVOID**

Oxidizing agents. Mineral Acids.

**HAZARDOUS DECOMPOSITION PRODUCTS**

In case of fire, the product can emit hazardous decomposition products, as carbon monoxide and various hydrocarbons

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY

Acute oral LD 50 (mouse) is 22 mg.kg<sup>-1</sup>.  
Acute oral LD 50 (rat) is 4300 mg.kg<sup>-1</sup>.

(Cobalt powder)  
Practically non-toxic

### IRRITATION

**SKIN AND EYE CONTACT**

Causes moderate irritation to skin and eyes

**INHALATION**

Irritating to upper respiratory tract.

### CHRONIC or LONG TERM TOXICITY

**CARCINOGENICITY**

There is no evidence of carcinogenicity due to xylene.

**SENSITIZATION**

May cause sensitization by inhalation and skin contact

## 12. ECOLOGICAL INFORMATION

### MOBILITY

This product is insoluble in water.



ISO 14001  
compliant

# Safety Data Sheet

PAGE 7 OF 9

Revision Date: 22-Jan-16

MSDS181/REV04

## ENVIRONMENTAL EFFECTS

This material is toxic to fish and wildlife..

## 13. DISPOSAL CONSIDERATIONS

### DISPOSAL METHODS

Disposal of product should only occur under conditions approved by local authorities.

### DISPOSAL OF PACKAGING

Labels should not be removed from containers. Do not cut, puncture or weld on or near to the container. Empty containers may contain hazardous residues and should be disposed of under conditions approved by local authorities. Contaminated containers must not be treated as household waste. Contaminated containers must not be incinerated. Contaminated containers must not be re-used.

## 14. TRANSPORT INFORMATION

TARIFF No.	3403
UN No.	3082
Substance Identity No. S.I.N. SABS 0232-3	1993
Emergency Action Code EAC SABS 0232-3	27
SABS 0228:1995 S.I.N.	1993
SABS 0228:1995 Technical Name	Flammable liquid N.O.S.
SABS 0228:1995 Class	3
SABS 0228:1995 Danger Group	111
SABS 0228:1995 Subsidiary Risks	Nil
SABS 0228:1995 Packaging Methods SABS 0229	13.3
IMDG - SHIPPING NAME	Flammable liquid N.O.S.
IMDG - CODE	Page 3345
IMDG - CLASS	3.3
IMDG - PACKAGING GROUP	111
IMDG - MARINE POLLUTANT	No
IMDG - EMS No.	3-07
IMDG - MFAG TABLE No.	310
IATA - SHIPPING NAME	Flammable liquid N.O.S.
IATA _ CLASS	3
IATA - SUBSIDIARY RISK (S)	Nil
IATA - PACKAGING GROUP	111
IATA - PACKAGING INSTRUCTION Passenger	309
IATA - PACKAGING INSTRUCTION Cargo	310
TREMCARD No.	Not available



ISO 14001  
compliant

# Safety Data Sheet

Revision Date: 22-Jan-16

PAGE 8 OF 9  
MSDS181/REV04

## 15. REGULATORY INFORMATION

<b><u>RISK PHRASES</u></b>	R 10 R 20/21 R 38	Flammable. Harmful by inhalation and in contact with skin. Irritating to skin
<b><u>SAFETY PHRASES</u></b>	S25	Avoid contact with eyes.

## **NATIONAL LEGISLATION**

South African Hazardous Substance Act 15 of 1973  
South African Occupational Health & Safety Act (85 of 1993)

## 16. OTHER INFORMATION

Ref: OMG Kokkola Chemicals Kokkola Finland MSDS Cobalt 6% 8/12/95  
ENGEN Petroleum Limited MSDS on Xylene 1997/08/04  
Fluka Catalogue 1997/98

### **Occupational Health and Safety Act, 1993 Annexure 1. Regulations for Hazardous Chemical Substances, 1995**

NCS RESINS Application Sheet APP 025/021 Bulk storage and handling of polyester resins.

SANS 10228-2006 The identification and classification of dangerous substances and goods

SANS 10232-3:2000 Annex A Emergency Response Handbook

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

NCS RESINS Application Sheet APP 025/021 Bulk storage and handling of polyester resins.

**Prepared By:** L Maistry in accordance with GHS requirements

Phone Number: 031 7130600

**Revision Date:** 17 December 2015

**Revision Summary:** 04

This information is provided in good faith and is correct to the best of NCS Resins's knowledge as of the date hereof and is designed to assist our customers; however, NCS Resins makes no representation as to its completeness or accuracy. Our products are intended for sale to industrial and commercial customers. We require customers to inspect and test our products before use and to satisfy themselves as to suitability for their specific applications. Any use which NCS Resins customers or third parties make of this information, or any reliance on, or decisions made based upon it, are the responsibility of such customer or third party. NCS Resins disclaims responsibility for damages, or liability, of any kind resulting from the use of this information.





ISO 14001  
compliant

# Safety Data Sheet

Revision Date: 22-Jan-16

PAGE 9 OF 9  
MSDS181/REV04

---

THERE ARE NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THIS INFORMATION OR TO THE PRODUCT IT DESCRIBES. IN NO EVENT SHALL NCS RESINS BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.

---

**End of Safety Data Sheet**