



Material Safety Data Sheet

Trade Name: **NCS Ultracure AC 2**

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Printed 5-Sep-16

MSDS181/REV03

Compiled 2016-09-01

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME NCS Ultracure AC 2

MANUFACTURER

NCS Resins – Durban Head Office TEL 031 713 0600 9 Pineside Road, New Germany 3610
FAX 031 705 9858
EMERGENCY TELEPHONE No.: 031 713 0600

SUPPLIER

Aurora Glass Fibre NZ Ltd TEL +64 9 273-3540 3/16 Zelanian Drive, East Tamaki
FAX + 64 9 273-3565 Auckland 2013, New Zealand
EMERGENCY TELEPHONE No.: +64 9 273-3540

2. COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Name 1% Cobalt Octoate
Chemical Family Cobalt Accelerator for Unsaturated Polyesters
Chemical Abstracts Registry No. (CAS No.) Mixture

Ingredients contributing to hazard.

Cobalt 2 Ethyl Hexanoate	5 - 10%	R38	CAS-136-52-7
Xylene	< 95%	R10 R20/21 S25	CAS No. 1330-20-7

RISK PHRASES R 10 Flammable.
R 20/21 Harmful by inhalation and in contact with skin.
R 38 Irritating to skin

SAFETY PHRASES S25 Avoid contact with eyes.

3. HAZARD IDENTIFICATION

MAIN HAZARDS

Flammable Flash Point 27°C



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HEALTH

Health Effects –Eyes, Skin, Inhalation.

May cause irritation to eyes, skin and respiratory tract.

Health Effects - Ingestion

May result in severe gastrointestinal irritation. Practically non-toxic.

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 irritation persists after washing.

First Aid - Ingestion

Wash mouth with water. **Do not 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

Advice to Physicians

Material if aspirated into the lungs may cause chemical pneumonitis.

5. FIRE - FIGHTING MEASURES

Extinguishing Media

Dry chemical, or carbon dioxide

Unsuitable Extinguishing Media

Water and foam may be ineffective on fire.



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Special Hazard Products

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Fine Metal dust, Metal Oxide dust, carbon monoxide and various hydrocarbons may occur during fire.

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Protection for Fire-fighters

Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid contact with skin and eyes

Environmental Precautions

Avoid contamination with soil and water. Product dangerous to environment.

Spillages

Contain or absorb using earth, sand or other inert material. Do not let material enter sewer or watercourses. Transfer into suitable containers for recovery or disposal. Dispose according to Local Regulations.

7. HANDLING AND STORAGE

Unsuitable Containers

PVC Containers

Handling

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

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.

Storage

Storage area should be well ventilated. Store away from heat and ignition and foodstuffs. Storage and transfer equipment should be adequately earthed and bonded to prevent accumulation of static charges.

Do not store next to Peroxides or Oxidizing agents..

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE GUIDELINES:

Occupational Health and Safety Act, 1993

Regulations for Hazardous Chemical Substances, 1995 Table 1 & 2.

TWA OEL CL
TWA OEL CL

0.1 mg/m³
100ppm

(Cobalt compounds)
(Xylene)

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ENGINEERING CONTROL MEASURES

Ensure that eyewash stations and safety showers are proximal to the workstation location.

PERSONAL PROTECTION EQUIPMENT

RESPIRATORY PROTECTION

If TWA OEL CL 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.

HYGIENE MEASURES.

Do not eat, drink or smoke in workplace. Wash hands before eating.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid	
Colour	Purple	
ODOUR	Pungent	
pH	Not applicable	
BOILING POINT/RANGE	>154 °C	Xylene
FREEZING POINT	Not available	Xylene
FLASH POINT	27 °C	Xylene
FLAMMABILITY	LEL 1.1% UEL 7.0%	Xylene
AUTO IGNITION TEMPERATURE	Not available	Xylene
EXPLOSIVE PROPERTIES	LEL 1.1% UEL 7.0%	Xylene
OXIDISING PROPERTIES	Not available	
VAPOUR PRESSURE	0.72 kPa @ 20°C	Xylene
DENSITY	0.86 g cm ⁻³ @ 25°C	
SOLUBILITY - WATER	Practically insoluble	
VAPOUR DENSITY (Air=1)	3.5	Xylene

10. STABILITY AND REACTIVITY



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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⁻¹.
Acute oral LD 50 (rat) is 4300 mg.kg⁻¹.

(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.

ENVIROMENTAL EFFECTS

This material is toxic to fish and wildlife..

13. DISPOSAL CONSIDERATIONS



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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.	<u>3-07</u>
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

15. REGULATORY INFORMATION



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RISK PHRASES

R 10

Flammable.

R 20/21

Harmful by inhalation and in contact with skin.

R 38

Irritating to skin

SAFETY PHRASES

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
ENGEN Petroleum Limited
Fluka Catalogue 1997/98
Occupational Health and Safety Act, 1993 Annexure 1.

MSDS Cobalt 6%
MSDS on Xylene

8/12/95
1997/08/04

Regulations for Hazardous Chemical Substances, 1995

SABS 0228-1995 The identification and classification of dangerous substances and goods

SABS 0232-3:1997 Annex A Emergency Response Handbook

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

APPENDIX

MSDS PREPARATION DATE
COMPILED BY
REVISION DATE

19 November 2008
Anthony Harris
29 May 2013

EXCLUSION OF LIABILITY

Information contained in this publication is accurate at the date of publication to the best of the knowledge of NCS Resins. The company does not accept liability whatsoever arising from the use of this information, or the use, application, adaptation, or processing of any products described herein.