

# Material Safety Data sheet

Trade Name: **NCS X-L MATT/MR5/MR6/MR8**

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Printed 29-May-13

MSDS109/

Compiled 2007-06-15

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## 1. PRODUCT AND COMPANY IDENTIFICATION

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**TRADE NAME** NCS X-L MATT /MR5/MR6/MR8

**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

**CAPETOWN** TEL 021 935 1788 6 Ruben Kaye Rd, Parow, Industria 7764

**JOHANNESBURG** TEL 011 451 8901 12 Plantation Road, Eastleigh, Edenvale 1610

**PORT ELIZABETH** TEL 041 412 571 19 Dudley Street, Neave Township 6020

**EMERGENCY TELEPHONE No.:** 031 7130600

**SUPPLIER**

**AURORA GLASS FIBRE NZ LTD** TEL +64 9 273-3540  
3/16 Zelanian Drive, East Tamaki FAX +64 9273-3565  
**AUCKLAND 2013, NEW ZEALAND**

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

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## 2. COMPOSITION & INFORMATION ON INGREDIENTS

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**Chemical Name**  
**Chemical Family**  
**Chemical Abstracts Registry No. (CAS No.)** Mixture

**Ingredients contributing to hazard.**

**Industrial Methylated Spirits(Ethanol)** <50 % **CAS No. 64-17-5**

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## 3. HAZARD IDENTIFICATION

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**MAIN HAZARDS**

Highly Flammable Flash Point 12°C

**RISK PHRASES** R 11 Highly Flammable.

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## SAFETY PHRASES

**S 7** Keep container tightly closed  
**S 16** Keep away from source of ignition – No smoking

## HEALTH

### Health Effects – Eyes, Skin, Inhalation.

May cause irritation to eyes, skin and respiratory tract.

### Health Effects - Ingestion

Harmful if swallowed. (can enter lungs and cause damage)

## CHEMICAL HAZARDS

Industrial Methylated Spirits reacts vigorously with oxidizing materials and other chemicals. E.g. disulphuryl dichloride, silver nitrate, bromine pentachloride, potassium perchlorate, nitrosyl perchlorate, chromyl chloride, chloryl perchloride, uranyl perchlorite, chromium trioxide, fluorine nitrate, dioxygen difluoride, uranium hexafluoride, iodine heptafluoride, tetrachlorosilane, permanganic acid, nitric acid, hydrogen peroxide, peroxisulphuric acid, potassium dioxide, sodium peroxide, potassium permanganate, ruthenium (viii) oxide, platinum, potassium, potassium tert-butoxide, silver oxide and sodium.

## CARCINOGENICITY

There is no evidence of carcinogenicity due to ethanol itself.

## MUTAGENICITY

Ethanol has been found to be non-mutagenic in Salmonella microsome test.

## REPRODUCTIVE HAZARDS

Some evidence for foetotoxicity and teratogenicity has been observed in experimental animals treated with high doses of ethanol during gestation.

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## 4. FIRST - AID MEASURES

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### 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 skin irritation persists.

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## First Aid - Ingestion

If victim is conscious, give 1 – 3 glasses of water or milk to dilute stomach contents. If spontaneous vomiting occurs, or when vomiting is induced, monitor for breathing difficulty. Do not make a conscious or semi-conscious person vomit. Keep affected person warm and at rest. Get medical attention for substantial ingestion and/or gastrointestinal symptoms.

## 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

Treat symptomatically. Keep under medical surveillance for 48 hours if aspiration could have occurred.

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## 5. FIRE - FIGHTING MEASURES

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### Extinguishing Media

Use dry chemical, alcohol foam, or carbon dioxide. Keep containers and surroundings cool with water.

### Unsuitable Extinguishing Media

Water may be ineffective.

### Special Hazard Products

Moderate to severe explosion hazard in confined spaces. Be aware of possibility of re-ignition.

Flash Point 12°C

Explosive Limits 3.3% - 19.0%

### Protection for Firefighters

Wear self-contained breathing apparatus with full-face mask and full protective equipment

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## 6. ACCIDENTAL RELEASE MEASURES

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### Personal Precautions

Consider need for evacuation. Eliminate all sources of ignition. Wear appropriate clothing. Wear respiratory protection. Beware of vapours accumulating to form explosive concentrations.

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## 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.

## Spillage

Contain or absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Take precautionary measures against static discharges. Beware of gas accumulating to form explosive concentrations.

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## 7. HANDLING AND STORAGE

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### 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.

Never use air pressure to transfer material.

### Storage

Storage temperature should be kept below 25°C.

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

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

### Packaging Material

Metal containers are not suitable, since the product contains water and will rust badly.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### OCCUPATIONAL EXPOSURE GUIDELINES:

Occupational Health and Safety Act, 1993  
Regulations for Hazardous Chemical Substances 1995 Table 1 & 2.

TWA OEL RL 1000 ppm (Industrial Methylated Spirits)

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## **ENGINEERING CONTROL MEASURES**

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

## **PERSONAL PROTECTION EQUIPMENT**

### **- RESPIRATORY PROTECTION.**

If TWA OEL RL level above is exceeded, then suitable respiratory protection must be worn. For high concentrations, and for oxygen deficient atmospheres, use an approved air-supplied respirator. Full respiratory protection should be available in case of spillage.

### **- 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.

## **PERSONAL PROTECTION COMMENTS**

### **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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>PHYSICAL STATE</b>	Liquid	
<b>Colour</b>	MR5 Blue, MR6 Water White, MR8 Red	
<b>ODOUR</b>	Characteristic pleasant odour	
<b>pH</b>	Not applicable	
<b>BOILING POINT/RANGE</b>	78.2 °C	Industrial Methylated Spirits
<b>FREEZING POINT</b>	-112°C	Industrial Methylated Spirits
<b>FLASH POINT</b>	12 °C	Industrial Methylated Spirits (closed cup)
<b>FLAMMABILITY</b>	3.3 – 19.0 % v/v	Industrial Methylated Spirits
<b>AUTO IGNITION TEMPERATURE</b>	363°C	Industrial Methylated Spirits
<b>EXPLOSIVE PROPERTIES</b>	LEL 3.3%. UEL 19.0%	Industrial Methylated Spirits
<b>OXIDISING PROPERTIES</b>	None	
<b>VAPOUR PRESSURE</b>	10.6 kPa at 20°C	Industrial Methylated Spirits
<b>DENSITY</b>	0.96 g cm <sup>-3</sup> at 20°C	
<b>SOLUBILITY - WATER</b>	Soluble	Industrial Methylated Spirits

## 10. STABILITY AND REACTIVITY

### STABILITY

Stable under normal storage conditions.

### CONDITIONS TO AVOID

Heat, sparks, open flames, ignition sources

### MATERIALS TO AVOID

Industrial Methylated Spirits reacts vigorously with oxidizing materials and other chemicals. E.g. disulphuryl dichloride, silver nitrate, bromine pentachloride, potassium perchlorate, nitrosyl perchlorate, chromyl chloride, chloryl perchloride, uranyl perchlorite, chromium trioxide, fluorine nitrate, dioxygen difluoride, uranium hexafluoride, iodine heptafluoride, tetrachlorosilane, permanganic acid, nitric acid, hydrogen peroxide, peroxisulphuric acid, potassium dioxide, sodium peroxide, potassium permanganate, ruthenium (viii) oxide, platinum, potassium, potassium tert-butoxide, silver oxide and sodium. Alkalis. Phosphorous pentoxide. Peroxides. Ferrous chloride and other metal halides.

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## 11. TOXICOLOGICAL INFORMATION

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### ACUTE TOXICITY

Acute oral LD 50 (rat) is 10600 mg.kg<sup>-1</sup>.

### IRRITATION

#### EYES, SKIN, INHALATION.

Causes moderate irritation to skin, eyes and respiratory tract.

### CHRONIC or LONG TERM TOXICITY

### CARCINOGENICITY

There is no evidence of carcinogenicity due to ethanol itself.

### MUTAGENICITY

Ethanol has been found to be non-mutagenic in Salmonella microsome test.

### REPRODUCTIVE HAZARDS

Some evidence for foetotoxicity and teratogenicity has been observed in experimental animals treated with high doses of ethanol during gestation.

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## 12. ECOLOGICAL INFORMATION

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### MOBILITY

This product is soluble in water.

### BIO ACCUMULATION

No data available

### AQUATIC TOXICITY

No data available

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## 13. DISPOSAL CONSIDERATIONS

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### DISPOSAL METHODS

Disposal should only occur under conditions approved by local authorities. See also section 6.

### DISPOSAL OF PACKAGING

Labels should not be removed from containers until they have been cleaned. 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.

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## 14. TRANSPORT INFORMATION

**NOT TO BE SENT BY MAIL**

TARIFF No.		3905.30
UN No.		1170
Substance Identity No. S.I.N.	SANS 10232-3	1170
Emergency Action Code EAC	SANS 10232-3	26
SANS 10228:1995	S.I.N.	1170
SANS 10228:2006	Technical Name	Resin solution miscible with water
SANS 10228:2006	Class	3
SANS 10228:2006	Danger Group	11
SANS 10228:2006	Subsidiary Risks	Nil
SANS 10228:2006	Packaging Methods SANS 10229	13.3
IMDG - SHIPPING NAME		Resin solution
IMDG - CODE		page 3278
IMDG - CLASS		Class 3.2
IMDG - PACKAGING GROUP		11
IMDG - MARINE POLLUTANT		No
IMDG - EMS No.		<u>3-05</u>
IMDG - MFAG TABLE No.		310
IATA - SUBSIDIARY RISK(S)		None
IATA - PACKAGING GROUP		11
IATA - PACKAGING INSTRUCTION Passenger		305
IATA - PACKAGING INSTRUCTION Cargo		307
TREMCARD No.		Not available

## 15. REGULATORY INFORMATION

<b><u>EEC HAZARD CLASSIFICATION</u></b>	Not available
<b><u>RISK PHRASES</u></b>	Highly Flammable. [R: 11]
<b><u>SAFETY PHRASES</u></b>	Keep container tightly closed [S: 7] Keep away from source of ignition – No smoking [S: 16]
<b><u>NATIONAL LEGISLATION</u></b>	South African Hazardous Substance Act 15 of 1973 South African Occupational Health & Safety Act (85 of 1993)



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## 16. OTHER INFORMATION

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Ref: NCP MSDS on ETHANOL 1993-12-14  
FLUKA Catalogue 1993/1994  
Occupational Health and Safety Act, 1993 Annexure 1.  
Regulations for Hazardous Chemical Substances, 1995  
SANS 10228-2006 The identification and classification of dangerous substances and goods  
SANS 10232-3:2000 Annex A Emergency Response Handbook  
NCS RESINS Application Sheet APP 025/021 Bulk storage and handling of polyester resins.

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## APPENDIX

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MSDS PREPARATION DATE	15-06-2007
COMPILED BY	Anthony Harris
REVISION DATE	29-05-2013

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## EXCLUSION OF LIABILITY

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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.