



Material Safety Data Sheet



Trade Name: **NCS X-L MR8**

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Printed 22-Sep-13

NDS119/205

Compiled 1999-10-04

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME NCS X-LMR8

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	021 934 5760	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.: 011 331 2947

2. COMPOSITION & INFORMATION ON INGREDIENTS

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

MAIN HAZARDS

Highly Flammable Flash Point 12°C

RISK PHRASES R 11 Highly Flammable.

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



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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.

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 skin irritation persists.

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

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

6. ACCIDENTAL RELEASE MEASURES

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.

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.

7. HANDLING AND STORAGE

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.



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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.

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 RL 1000 ppm (Industrial Methylated Spirits)

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



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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

ACUTE TOXICITY

Acute oral LD 50 (rat) is 10600 mg.kg⁻¹.

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.

12. ECOLOGICAL INFORMATION

MOBILITY

This product is soluble in water.

BIO ACCUMULATION

No data available

AQUATIC TOXICITY

No data available

13. DISPOSAL CONSIDERATIONS

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.	1866
Substance Identity No. S.I.N. SABS 0232-3	1866
Emergency Action Code EAC SABS 0232-3	26
SABS 0228:1995 S.I.N.	1866
SABS 0228:1995 Technical Name	Resin solution miscible with water
SABS 0228:1995 Class	3
SABS 0228:1995 Danger Group	11
SABS 0228:1995 Subsidiary Risks	Nil
SABS 0228:1995 Packaging Methods SABS 0229	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.	3-05
IMDG - MFAG TABLE No.	310
IATA - SHIPPING NAME	Resin solution
IATA _ CLASS	Class 3
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

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

16. OTHER INFORMATION

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



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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	04-10-99
COMPILED BY	Sven Liljestr�nd

EXCLUSION OF LIABILITY

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