

Safety Data Sheet

Issue Date: 22/02/2023

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Product Name: **NOVITHOR RESIN**

ENSYSTEX®

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

GHS Product Identifier	NOVITHOR RESIN
Company Name	ENSYSTEX AUSTRALASIA PTY LTD 3/4-6
Address	Junction St, Auburn, NSW 2144 Australia
Telephone/Fax Number	
Tel:	13 35 36
Fax:	(02) 9647 2189
Poisons Centre	13 11 26 (24hr)

Recommended use of the chemical and restrictions on use
Termite Protection System

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Acute Toxicity – Dermal: Category 4

Acute Toxicity – Inhalation: Category 4

Aspiration Hazard: Category 1

Eye Damage/Irritation: Category 2A

Flammable Liquids: Category 3

Skin Corrosion/Irritation: Category 2

STOT Repeated Exposure: Category 2

STOT Single Exposure: Category 3 (respiratory tract irritation)

Toxic to Reproduction: Category 1

Signal Word (s)

DANGER

Hazard Statement (s)

H226 Flammable liquid and vapour

H304 May be fatal if swallowed and enters airways

H312 Harmful in contact with skin

H315 Causes skin irritation

H319 Causes serious eye irritation

H332 Harmful if inhaled

H335 May cause respiratory irritation

H360 May damage fertility or the unborn child

H373 May cause damage to organs through prolonged or repeated exposure

Pictogram (s)

Flame, Exclamation mark, Health hazard



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Precautionary statement – Prevention

- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P233 Keep container tightly closed
- P240 Ground/bond container and receiving equipment
- P241 Use explosion-proof electrical/ventilating/lighting/equipment
- P242 Use only non-sparking tools
- P243 Take precautionary measures against static discharge
- P260 Do not breathe dust/fume/gas/mist/vapours/spray
- P264 Wash contaminated skin thoroughly after handling
- P271 Use only outdoors in a well-ventilated area
- P280 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary statement – Response

- P301+P310 IF SWALLOWED: Immediately call a POISON CENTRE (eg Australia Phone 131 126) or doctor/physician
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do
Continue rinsing
- P312 Call a POISON CENTRE (eg Australia Phone 13 11 26) or doctor/physician if you feel unwell Do NOT induce vomiting
- P331 unwell Do NOT induce vomiting
- P332+P313 If skin irritation occurs: Get medical advice/attention
- P337+P313 If eye irritation persists: Get medical advice/attention
- P362 Take off contaminated clothing and wash before reuse
- P370+P378 In case of fire: Use carbon dioxide, dry chemical or foam for extinction

Precautionary statement – Storage

- P403+P233 Store in a well-ventilated place. Keep container tightly closed
- P403+P235 Store in a well-ventilated place. Keep cool
- P405 Store locked up

Precautionary statement – Disposal

- P501 Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Xylene	1330-20-7	<40%
Ethyl Benzene	100-41-4	<30%
Toluene	108-88-3	<10%
Ingredients determined not to be hazardous		Balance

4. FIRST AID MEASURES

- Inhalation** If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.
- Ingestion** Do NOT induce vomiting. Wash out mouth and lips with water. Where vomiting occurs naturally have affected person place head below hip level in order to reduce risk of aspiration. Seek immediate medical attention.
- Skin** Remove contaminated clothing. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.
- Eye Contact** If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.
- First Aid Facilities** Eye wash, safety shower and normal washroom facilities.
- Advice to Doctor** Treat symptomatically.
- Other Information** For advice in an emergency, contact a Poisons Information Centre (Phone eg Australia 131 126) or doctor at once.

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5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Use carbon dioxide, dry chemical or foam. Alcohol resistant foam is preferred. If not available normal foam can be used

Unsuitable Extinguishing Media Do not use water jet.

Hazards from Combustion Products Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide carbon dioxide and oxides of nitrogen.

Specific Hazards Arising from the Chemical Flammable liquid. Keep storage tanks, pipelines, fire-exposed surfaces etc cool with water spray. Shut off any leak if safe to do so and remove sources of re-ignition. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create a fire hazard. Heating can cause expansion or decomposition leading to violent rupture of containers.

Hazchem Code •3Y

Precautions in connection with Fire Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Use water spray to cool storage containers and tanks, pipelines and fire exposed surfaces.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert, absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs, inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling Avoid contact with skin and eyes. Wear overalls, impervious gloves and safety glasses. Use in designated areas with adequate ventilation. Use approved flammable liquid storage containers in the work area. Prevent release of vapours and mists into workplace air. Keep containers closed when not in use. Take precautionary measures against static discharges. Keep material away from sparks, flames and other ignition sources. Do not empty into drains. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities.

Avoid exposure. Do not handle until all safety precautions have been read and understood. It is recommended that pregnant or breastfeeding women should not handle this product unless adequate exposure protection can be assured at all times. Female personnel planning pregnancy should be made aware of the potential risks.

Conditions for Safe Storage Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, incompatibles, foodstuffs, and clothing. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Reference should also be made to all applicable local and national regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit Values No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:

	TWA:	STEL:
Ethylbenzene:	100 ppm, 434 mg/m ³	125 ppm, 543 mg/ m ³
Xylene	80 ppm, 350mg/ m ³	150 ppm, 655mg/ m ³
Toluene	50 ppm, 191 mg/ m ³	150 ppm, 574 mg/ m ³

Note: Sk

TWA Time Weighted Average: The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL Short Term Exposure Limit: The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

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Sk Notice: Absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur

Biological Limit Values

Name: Ethylbenzene
Determinant: Sum of mandelic and phenylglyoxylic acids in urine
Specimen: Creatinine
Value: 0.15g/g
Sampling time: End of Shift.

Name: Toluene
Determinant: toluene in urine
Value: 0.03mg/l
Sampling time: End of Shift

Name: Toluene
Determinant: toluene in blood
Value: 0.02mg/l
Sampling time: prior to last shift of workweek

Name: Toluene
Determinant: o-Cresol in urine
Value: 0.3mg/g creatinine
Sampling time: End of Shift

Name: Xylene
Determinant: Methylhippuric acids
Specimen: Creatinine in urine
Value: 1.5g/g
Sampling time: End of Shift

Source: American Conference of Industrial Hygienists (ACGIH)

Appropriate

Engineering Controls

Provide sufficient ventilation to keep airborne levels below the exposure limits. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flameproof exhaust ventilation system is required. Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NZS 60079.10.1:2009 Explosive atmospheres – Classification of areas _ Explosive gas atmospheres, for further information concerning ventilation requirements.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection

Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Description	Properties	Description
Form	Liquid	Appearance	Colourless liquid (May be coloured with inert pigments)
Colour	Colourless (May be coloured using inert pigments)	Odour	Strong odour
Melting Point	Not applicable	Boiling Point	Start from 110° C
Solubility in Water	Negligible	Specific Gravity	0.901
pH	Not available	Vapour Pressure	Not available
Vapour Density (Air=1)	Not available	Evaporation Rate	Not available
Coefficient Water/Oil Distr.	Not available	Viscosity	Not available
Volatile Component	Not available	Flash Point	23 - 27° C
Flammability	Flammable liquid	Auto-Ignition Temperature	Not available
Flammable Limits -Lower	Not available	Flammable Limits - Upper	Not available
Explosion Properties	Not available	Oxidising Properties	Not available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling
Reactivity and Stability	Reacts with incompatible materials
Conditions to Avoid	Heat, open flames and other sources of ignition
Incompatible Materials	Strong oxidising agents
Hazardous Decomposition Products	Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and oxides of nitrogen
Possibility of hazardous reactions	Reacts with incompatible materials
Hazardous Polymerization	Will not occur

11. TOXOLOGICAL INFORMATION

Toxicology Information	No toxicity data available for this material
Ingestion	May be fatal if swallowed and enters airways. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause severe pulmonary injury that may lead to death. May cause irritation to the mouth, throat, oesophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.
Inhalation	Harmful if inhaled. May cause respiratory irritation. Inhalation of product vapours can cause irritation of the nose, throat and respiratory system
Skin	Harmful in contact with skin. Product can be absorbed through skin with resultant harmful systemic effects. Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis
Eye	Causes serious eye irritation. On eye contact, this product will cause tearing, stinging, blurred vision and redness
Respiratory Sensitisation	Not expected to be a respiratory sensitiser
Skin Sensitisation	Not expected to be a skin sensitiser
Germ cell mutagenicity	Not considered to be a mutagenic hazard
Carcinogenicity	Not considered to be a carcinogenic hazard

Xylene is listed as a Group3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).

Ethylbenzene is listed as a Group 2B: Possibly carcinogenic to humans according to International Agency for Research on Cancer (IARC).

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Reproductive Toxicity	May damage fertility or the unborn child. Classified as a Known or presumed human reproductive or developmental toxicant
STOT-single exposure	May cause respiratory irritation
STOT- Repeated exposure	May cause damage to organs through prolonged or repeated exposure
Aspiration Hazard	May be fatal if swallowed and enters airways

12. ECOLOGICAL INFORMATION

Ecotoxicity	No ecological data available for this material
Persistence & Degradability	Not available
Mobility	Not available
Bioaccumulative Potential	Not available
Other Adverse Effects	Not available
Environ. Protection	Do not allow product to enter drains, waterways or sewers

13. DISPOSAL CONSIDERATIONS

Disposal of spilled or waste material must be carried out in accordance with the relevant local and national government regulations. Advise flammable nature. Empty containers may contain flammable residues. Do not puncture, cut or weld empty containers.

14. TRANSPORT INFORMATION

Transport Information

This material is classified as a Dangerous Goods Class 3 -Flammable Liquid according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Class 3 Flammable Liquids are incompatible in a placard load with any of the following:

- Class 1, Explosives
- Division 2.1, Flammable Gases (Division 2.1 and Class 3 are incompatible in transport if both are in tanks or other receptacles with a capacity individually exceeding 500L)
- Division 2.3, Toxic Gases
- Division 4.2, Spontaneously Combustible Substances
- Division 5.1, Oxidising substances and Division 5.2 Organic Peroxides
- Class 6, Toxic and Infectious Substances (where the flammable liquid is nitromethane)
- Class 7, Radioactive Substances

Marine Transport (IMO/IMDG)

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea

U.N. Number	1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. - (CONTAINS: XYLENE)
Class	3
Packing Group	III
EMS NO	F-E, S-E
Special Provision	223,274,955

Air Transport (ICAO/IATA):

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) a Dangerous Goods Regulations for transport by air.

U.N. Number	1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. - (CONTAINS: XYLENE)
Class	3
Packing Group	III
Packaging Instructions (passenger & Cargo)	355
Packaging Instructions (cargo only)	366
Hazard Label	Flammable Liquid
Special Provision	A3

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U.N. Number	1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. - (CONTAINS: XYLENE)
Transport hazard class(es)	3
Packaging Group	111
Hazchem Code	•3Y
Special Precautions for User	Not available
IERG Number	14
IMDG Marine Pollutant	No
Transport in Bulk	Not available

15. REGULATORY INFORMATION

Regulatory Information

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Poisons Schedule S5

Australia (AICS) The listed chemicals are included in Australian Inventory of Chemical Substances (AICS) or otherwise notified under NICNAS

16. OTHER INFORMATION

Date of preparation or last revision of SDS SDS Created: February 2023

References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice
Standard for the Uniform Scheduling of Medicines and Poisons
Australian Code for the Transport of Dangerous Goods by Road & Rail
Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals
Workplace exposure standards for airborne contaminants, Safe Work Australia
American Conference of Industrial Hygienists (ACGIH)
Globally Harmonised System of classification and labelling of chemicals

END OF SDS