



1. Identification of the substance /preparation and of the company / undertaking

Filled resin and casting resin : RM 2000

Company **NORD COMPOSITES**
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2. Composition / information on ingredients

Chemical description

Unsaturated polyester, melted in styrene

Hazardous components

Styrene (CAS n° 100-42-5)
Wt % 12.5
Symbol Xn
R phrases 10 - 20 – 36/38

3. Hazards identification

Hazard for men and environment

R10 – flammable
R20 – noxious by inhalation
R36/38 – eye and skin irritant

4. First aids measures

- Inhalation Move to fresh air, keep the affected person warm and at rest.
- Skin contact Take off immediately all contaminated clothing, wash off with soap and plenty of water
- Eye contact rinse immediately with plenty of water for at least 10 minutes, and seek medical advice.
- Ingestion Do not induce vomiting, get medical attention

5. Fire fighting measures

Extinguishing media : foam, powder, carbon dioxide, water spray can be used

Specific hazards : toxic gases / vapours / fumes of carbon dioxide, carbon monoxide, water.

Special protective equipment for fire fighters : Wear a self-contained breathing apparatus

6. Accidental release measure

Personal precautions : In case of vapour formation use respirator

Environmental precautions : Do not let product enter drains



Methods for cleaning up : Soak up with inert absorbent material (for example : sand, silica gel, universal blinder). Clean contaminated surface thoroughly and place into containers.

7. Handling and storage

Handling

Keep away from sources of ignition, no smoking.

Storage

Keep container tightly closed in a dry and well-ventilated place, keep away from heat.

8. Exposure controls / personal protection

Substance

Styrene: VME = 50 ppm (215 mg/m³).

Personal protection equipment :

- respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.
- hand protection: solvent-resistant gloves.
- eye protection: safety glasses
- skin protection : long sleeved clothing

9. Physical and chemical properties

Form :	Liquid
Odour :	Typical
Boiling point :	146°C
Flash point :	31°C
Ignition temperature :	490°C
Explosion limits :	
- Lower	1.1%
- Upper	8.0%
Vapour pressure :	20°C
Density :	approximately 1.3 – 1.6 g/cm ³
Solubility:	insoluble in water, soluble in styrene, xylene acetone
PH :	no suitable
Viscosity :	>300 mPa.s

10. Stability and reactivity

Stability may polymerise

Hazardous decomposition products : no decomposition in normal conditions, heat emanation during polymerisation



11. Toxicological information

Acute toxicity

Styrene – DL50/ oral / rat : 5000 mg/kg
CL50/ inhal / rat : 11.9mg/l/4h

12. Ecological information

Test : OCDE 301C/ ISO 9408 / EEC 84/449/V,C7
Analysis : DBO
Elimination rate : > 60 %
Estimate : biodegradable
Insoluble, do not discharge in natural waters.

13. Disposal considerations

No hard : Can be incinerated in properly designed furnace complying with local regulations
Hard : Can be placed in dump or incinerated in properly designed
Empty containers that cannot be cleaned must be destroyed as well as the product they contain.

14. Transport information

Road : ADR/RID/GGVS/GGVE Class : 3 Hazards N° : 30 UN : 1866
Pictogram
Sea : IMDG/GGVSee_ Class : 3 UN : 1866 Packaging group : III
EMS N° : 3-05 MFAF N° 310
Marine pollutant : yes
Air : OACI/IATA Class : 3 UN : 1866 Packaging group : III
Proper shipping name : resin solution, flammable (contains styrene) – marine pollutant

15. Regulatory information

Classification according to EEC directive

Contains : styrene
EEC N° : 601-026-00-0
EINECS N° 202-851-5

Xn – noxious
R10 flammable
R20 noxious by inhalation
R36/38 eye and skin irritant
S3 Keep in a cool place



**NORD
COMPOSITES**

SAFETY DATA SHEET

DS 004 E

Date : 20/01/2003

S37 wear appropriate gloves
S51 only use in ventilated areas

16. Other information

Realisation of composite material
For more details, refer to the Data sheet.

This safety data sheet relates information based on our present state knowledge. It does not constitute a guarantee for product characteristics. It is the user's responsibility himself as to the suitability of such information for his own particular use.