

HUNTSMAN

MATERIAL SAFETY DATA SHEET

AME[®] VINYL ESTER RESIN SOLUTION MSDS CODE G GRADES
AROPOL[®] POLYESTER RESIN SOLUTION MSDS CODE G GRADES
AROTOOL[®] POLYESTER RESIN SOLUTION MSDS CODE G GRADES
CRYSTIC[®] POLYESTER RESIN SOLUTION MSDS CODE G GRADES
DISCON[®] POLYESTER RESIN SOLUTION MSDS CODE G GRADES
ESTAREZ[®] POLYESTER RESIN SOLUTION MSDS CODE G GRADES
HETRON[®] POLYESTER RESIN SOLUTION MSDS CODE G GRADES
HETRON[®] VINYL ESTER RESIN SOLUTION MSDS CODE G GRADES

Hazardous according to the criteria of NOHSC

COMPANY DETAILS

Company Name: Huntsman Chemical Company Australia Pty. Limited ABN 48 004 146 338
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IDENTIFICATION

Product Name: AME VINYL ESTER RESIN SOLUTION MSDS CODE G GRADES
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Other Names: Unsaturated polyester resin in styrene solution
Vinyl ester resin in styrene solution

Manufacturer's Product Codes:

This MSDS covers all grades of AROPOL/CRYSTIC/DISCON/ESTAREZ/HETRON Polyester Resin Solution and AME/HETRON Vinyl Ester Resin Solution **containing styrene as the sole hazardous ingredient**. These grades are indicated by the words "MSDS CODE G" immediately after the grade name on the label e.g. ESTAREZ 905P MSDS CODE G, AME 5000 MSDS Code G. A few grades may contain a low concentration of non hazardous organic colourant and/or titanium dioxide (<3% wt.). These grades are indicated by the suffix "BLUE", "WHITE" etc after the grade name eg. CRYSTIC 1035 PASLSE-WHITE. AME Vinyl Ester Resin Solutions may also contain a non hazardous organic colourant. The MSDS Code is also referenced in technical literature.

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ADG Code Classification

UN No. 1866
Proper Shipping Name: RESIN SOLUTION
Dangerous Goods Class: 3
Subsidiary Risk: None allocated
Packing Group: III
Hazchem Code: 3[Y]
Emergency Information: IERG 14 (SAA/NZS HB:76) or EPG 3A1 (AS2931)

Poisons Schedule Number:

5

Australian Inventory of

Chemical Substances:

Use:

All components are listed or meet requirements of NICNAS.
Manufacture of reinforced and filled plastic composites e.g. fibreglass products. Product may be repacked for sale to the general public.

PHYSICAL DESCRIPTION/PROPERTIES

Appearance: Clear or cloudy, viscous liquid with a sweet or sharp aromatic odour.
Boiling Point: Styrene: 145 deg.C @ 760 mm Hg. May polymerise below boiling point.
Vapour Pressure: Styrene: 4.5 mm Hg @ 20 deg.C
Specific Gravity: 1.1 @ 25 deg.C (H₂O = 1)
Flash Point: 30-33 deg.C Method: Tag Closed Cup
Flammability Limits: Styrene: 1.1-6.1 % by volume in air
Solubility in Water: Immiscible

OTHER PROPERTIES

Vapour Density: Styrene: 3.6 (Air = 1)
Solubility in Organic Solvents: Miscible with acetone, glycol ethers, toluene.
Evaporation Rate: Styrene: 0.5 (n-Butyl Acetate=1)
Percent Volatiles: 30-67 % by vol.
Odour Threshold: Styrene: Approx. 0.15 ppm

INGREDIENTS

Chemical Name	CAS No.	Proportion % wt.
Unsaturated polyester resin and/or vinyl ester resin (x)	Not available	45-75
Styrene	100-42-5	25-55

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x Resin component is non hazardous according to the criteria of NOHSC Australia.

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

Acute - Swallowed:

No data on the resin. Styrene may cause irritation to the mouth and throat and abdominal discomfort, nausea and vomiting.

Acute - Eye:

May cause irritation, experienced as discomfort or pain, and seen as excess redness and possible swelling of the eye, and possible injury to the cornea.

Acute - Skin:

May cause irritation and discomfort, and seen as local redness and possible swelling. Prolonged contact, as with clothing wetted with material, may cause severe irritation and discomfort. Scientific studies indicate that absorption of styrene from skin contact with liquid resin during normal use is unlikely to add significantly to exposure.

Acute - Inhaled:

Inhalation of styrene may cause irritation to the upper respiratory tract and central nervous system effects (dizziness, drowsiness, euphoria, loss of coordination, headache, nausea and vomiting). In poorly ventilated areas or confined spaces, unconsciousness and asphyxiation may result. Inhalation may result in the absorption of potentially harmful amounts of material.

Chronic:

Repeated skin contact may cause irritant contact dermatitis (itching, drying, redness). Repeated inhalation may cause lung damage. Prolonged and repeated overexposure may cause damage to the liver and kidney.

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Other Health Effects Information:

STYRENE COMPONENT

Carcinogenicity (Capability to Cause Cancer)

Chronic (lifetime) inhalation studies on rats and mice exposed to styrene vapours showed evidence of lung tumours in mice but not in rats. Further research is in progress to determine the relevance of these mouse tumours to humans.

It should be noted, however, that several workplace exposure (epidemiological) studies investigating the incidence of cancer in a large number of workers employed in the styrene, polystyrene and reinforced plastics industries have shown no increased incidence of cancer risk due to workplace exposures to styrene.

The International Agency for Research on Cancer (IARC) has evaluated styrene and classified it as "Possibly Carcinogenic to Humans", under group 2B. The National Occupational Health and Safety Commission (NOHSC) has not classified styrene as a carcinogen under any category.

Developmental and Reproductive Toxicity

Laboratory studies investigating human developmental and reproductive toxicity of styrene have indicated that styrene exposures, either as vapour, oral or drinking water, do not result in any specific developmental or reproductive toxicity. Although some minor developmental effects were noted in some studies, these effects were either within the historical range for these effects, or were secondary to maternal toxicity from exposure to relatively high levels of styrene.

Although there have been very few studies investigating human developmental and reproductive toxicity following exposures to styrene, the limited available information supports the observation that there is no evidence of developmental or reproductive toxicity from workplace exposures to styrene.

Neurological (Nervous System) Effects

Some evidence of hearing loss was observed in rats repeatedly exposed to high concentrations of styrene vapour. Effects on human hearing are not expected from workplace exposures to styrene.

Slight effects on colour discrimination have been detected in workers exposed to styrene vapours. These subtle effects are unlikely to be noticed by those affected.

Other nervous system effects have been noted in humans exposed to styrene. However, these effects have not been consistently or reliably observed at exposure levels below 50 ppm.

Genetic effects

Some cytogenetic (cell formation) studies on workers exposed to styrene have shown increases in chromosomal (genetic) damage, although these effects do not appear to be related to styrene exposure and are not supported by the data observed in animal studies.

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MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Because of styrene's defatting properties, prolonged and repeated skin contact may aggravate an existing dermatitis (skin condition). Repeated overexposure may aggravate or enhance existing nervous system dysfunction. Repeated overexposure may aggravate existing respiratory, liver or kidney disease.

FIRST AID

Swallowed:

If swallowed, give a glass of water. Do NOT induce vomiting. Lean victim forward to reduce the risk of aspiration. Never give drink to an unconscious person. Transport to a doctor or hospital quickly. For further advice call Poisons Information Centre (Australia 13 1126; New Zealand 03 4747000).

Eye:

Immediately flush with plenty of water for at least 15 minutes, with eyelids held open. Seek immediate medical advice.

Skin:

Immediately remove contaminated clothing. Wipe resin off skin. Wash skin thoroughly with soap and water. Wash clothing before reuse.

Inhaled:

Remove to fresh air. Seek medical assistance. If not breathing give artificial respiration. If breathing difficult give oxygen.

First Aid Facilities:

Provide eye baths and safety showers close to areas where splashing may occur.

ADVICE TO DOCTOR

Treat symptomatically. Effects may be delayed and include pulmonary oedema.

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PRECAUTIONS FOR USE

EXPOSURE STANDARDS

	8 HR TWA	NOHSC EXPOSURE STANDARDS	
		STEL (15 MIN'S)	PEAK LIMITATION
Styrene	50 ppm	100 ppm	-

Note: The New Zealand OSH Service has published the following Workplace Exposure Standards (WES): Styrene (skin): 8-hour TWA: 50 ppm, STEL (15 min's): 100 ppm).

Keep exposures as low as practicable below exposure standards.

ENGINEERING CONTROLS

Provide sufficient ventilation to control exposure levels below the exposure standards. Use mechanical exhaust ventilation at sources of contamination such as open process equipment.

Exposure to aerosols and mists when material is sprayed may present a greater risk of injury from components because higher concentrations are in the atmosphere than result from vapour alone. Provide adequate ventilation and, if necessary, respiratory protection.

PERSONAL PROTECTION

Respiratory Protection:

Avoid breathing vapours and/or spray mist. If inhalation risk exists, wear air-purifying respirator fitted with organic vapour/particulate filters, self-contained breathing apparatus or air-supplied respirator meeting AS/NZS1716 and selected and used in accordance with AS/NZS1715. Full face equipment is recommended and if used, replaces the need for face shield and/or chemical splash goggles.

Eye Protection:

Wear chemical goggles to prevent eye contact. Do not wear contact lenses.

Glove Type:

Wear impervious gloves, preferably with cotton inners, to prevent skin contact. Supplier data indicates polyvinyl alcohol and Viton gloves are suitable for prolonged contact with styrene. Other glove types, such as nitrile rubber, may be suitable as disposable gloves for brief or intermittent contact only.

Clothing:

Wear coveralls and safety boots where potential for skin contact is low. A disposable suit (eg. Tyvek) and polyethylene boots and glove covers may be practical options during application of the resin. Wear impervious clothing, such as PVC apron, PVC splash suit or Saranex disposable suit and PVC boots, as appropriate for the operation, where the potential for skin contact is high.

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Other Personal Protection:

Protective clothing/equipment should meet, and be selected and used in accordance with relevant Australian Standards. Consult protective equipment/clothing suppliers to determine appropriate type equipment/clothing for a given application. Avoid contact with eyes, skin and clothing. Use only in well ventilated areas. Wash thoroughly after handling. When using, do not eat, smoke or drink. Protective equipment and clothing should be decontaminated before storage and/or reuse.

Solvents should not be used to remove resin from skin. A waterless hand cleanser is recommended for clean-up, followed by a mild soap and water wash. The application of a barrier cream under suitable gloves and moisturiser cream after hand washing is also recommended. These practices can assist in the prevention of dermatitis.

FLAMMABILITY

Flammable liquid. Vapour may form explosive mixtures with air. Avoid all ignition sources. Use only in well ventilated areas. Keep container tightly closed. Flameproof equipment is necessary in area where product is being used. Earth (ground) and bond shipping container, transfer line and receiving container. Consult AS1940 for further information on the storage and handling of flammable liquids. Handle in accordance with State or Territory regulations for flammable liquids.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code):

Classified as Dangerous Goods (See "Identification" section). Do not load or pack with Class 1 (Explosives), Class 2.1 (Flammable Gases-where flammable liquids/gases are in bulk), Class 2.3 (Toxic Gases), Class 4.2 (Spontaneously Combustible Substances), Class 5.1 (Oxidising Agents), Class 5.2 (Organic Peroxides), Class 7 (Radioactive Substances). Transport in accordance with State and Territory regulations.

International Maritime Dangerous Goods (IMDG) Code and International Air Transport Association (IATA) Dangerous Goods Regulations:

UN 1866, RESIN SOLUTION, Class 3, Packing Group III.

Other Transport and Storage Information:

Classified as Dangerous Goods (See "Identification" section for classification). Store and handle in accordance with State and Territory regulations (See "Flammability" section).

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The material is a Schedule 5 Poison (Australia) and must be stored, maintained and used in accordance with relevant regulations.

Keep away from sources of ignition - No smoking. Keep container tightly closed. Store in the shade, preferably below 30 deg.C. Store in a well ventilated area. Keep away from incompatible materials. The product is stable under normal conditions of storage and transport. It has a limited storage life due to inhibitor depletion and should be used within six months of delivery. Rapid polymerisation resulting in violent rupture of closed containers and possible fire from flammable vapours may be initiated by high temperatures or certain contaminants.

Contamination with alkalis reduces inhibitor concentration and increases the risk of spontaneous polymerisation. Exposure to UV radiation (including from light fittings) can initiate slow polymerisation that may continue in a sealed container. Oxidising agents (e.g. organic peroxides), strong acids (e.g. sulphuric acid), ferrous salts present in rust, and some metal halides, can promote polymerisation. Contamination of the product with these substances should therefore be absolutely avoided.

Styrene degrades most plastics and rubbers and corrodes copper and copper alloys. Avoid these materials for storage and handling of styrene based resin solutions.

Protect storage containers against physical damage. Outside storage or detached storage is preferred. Tanks should be above ground and banded to contain the entire contents. Styrene vapours are uninhibited and may polymerise in vents and flame arresters of storage tanks resulting in blockage of vents.

SPILLS AND DISPOSAL

Spill or Leak Procedures:

Keep unprotected people away. Wear appropriate protective equipment to prevent eye and skin contact and inhalation of vapours (See "Personal Protection" section). Remove all ignition sources. Increase ventilation. For large spills, wear self-contained breathing apparatus and full protective clothing. Contain spill and absorb with inert absorbent such as sand, earth or vermiculite and seal in properly labelled containers or disposal. Alternatively, pump to salvage truck. Keep out of sewer, stormwater drains and waterways.

Waste Disposal:

The product is considered to be a hazardous waste because of its flammability and toxicity. If feasible, recycle. Liquid waste resin may be solidified by heating in an approved heating chamber. The properly cured solid may be disposed of in a chemical landfill. Otherwise, dispose of by burning in an approved incinerator. In all cases, disposal should be in accordance with regulations.

Containers:

Emptied containers retain vapour and product residue and may therefore present explosive vapour and toxic material hazards. Observe all safeguards on label and in this MSDS until container is cleaned, reconditioned or destroyed. **DO NOT CUT OR WELD ON OR NEAR THIS CONTAINER.** In all cases, disposal should be in accordance with regulations.

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FIRE/EXPLOSION HAZARD

Flammable liquid. Polymerisable in a fire situation.

Extinguishing Media:

Foam, dry chemical and carbon dioxide extinguishers may be used. Use water spray to cool exposed closed containers.

Special Fire-Fighting Procedures:

Fire-fighters and others exposed to the products of combustion (see "Hazardous Decomposition Products") should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

Unusual Fire and Explosion Hazards:

Vapours are heavier than air and can accumulate in low areas; they may travel considerable distance to a source of ignition and flash back. The liquid normally contains an inhibitor to prevent polymerisation. At elevated temperatures, such as a fire conditions, polymerisation may take place. If polymerisation takes place in a container, there is a possibility of violent rupture of the container. Styrene vapours are uninhibited and may form polymers in vents and flame arresters of storage tanks, resulting in blockage of vents.

Hazardous Decomposition Products:

Thermal decomposition products include carbon monoxide and carbon dioxide, styrene and acrid smoke.

ADDITIONAL INFORMATION

HAZARDOUS SUBSTANCE CLASSIFICATION

Health hazard classification and labelling according to the criteria of NOHSC:

Overall health hazard classification: HARMFUL (Xn)

R10 Flammable.

R20 Harmful by inhalation.

R36/38 Irritating to eyes and skin.

S23 Do not breathe vapour or spray.

Note: Consult the current edition of the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) and relevant regulations for labelling requirements for product repacked and sold to the general public.

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REASONS FOR REVISION

1. Supersedes Issue of 1 Dec 1999.
2. AME Vinyl Ester Resin Solution added to Huntsman Vinyl Ester Resin Solution MSDS Code G Grades.
3. Styrene no longer classified as a Marine Pollutant (IMDG Code 2000).

CONTACT POINT

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