

SILVER FERN CHEMICAL



Safety Data Sheet

Alpha Methyl Styrene (AMS)

SECTION 1: IDENTIFICATION

Product Name: Alpha Methyl Styrene

CAS Number: 98-83-9

Chemical Name: Alpha Methyl Styrene; Isopropenylbenzene

Synonyms: α -Methylstyrene; 2-Phenyl-1-propene; 1-Methyl-1-phenylethylene; 2-Phenylpropene; Isopropenylbenzene

Uses: Industrial Use only

Company

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SECTION 2: HAZARD IDENTIFICATION

Warning



GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 3), H226

Eye irritation (Category 2A), H319

Carcinogenicity (Category 2), H351

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Acute aquatic toxicity (Category 2), H401

Chronic aquatic toxicity (Category 2), H411

Hazard statement(s):

H226 Flammable liquid and vapor.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H351 Suspected of causing cancer.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s):

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.
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P264 Wash skin thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
 P391 Collect spillage.
 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.
 P501 Dispose of contents/ container to an approved waste disposal plant.
 Aquatic Acute Acute aquatic toxicity
 Aquatic Chronic Chronic aquatic toxicity
 Carc. Carcinogenicity
 Eye Irrit. Eye irritation
 Flam. Liq. Flammable liquids
 H226 Flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H351 Suspected of causing cancer.
 H401 Toxic to aquatic life.
 H411 Toxic to aquatic life with long lasting effects.

Hazards not otherwise classified (HNOC) or not covered by GHS: Lachrymator.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

CAS #	Content (W/W)	Ingredients
98-83-9	<=100%	Alpha-Methyl Styrene

Formula : C₉H₁₀

SECTION 4: FIRST AID MEASURES

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact : Wash off with soap and plenty of water. Consult a physician

In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

If swallowed : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labelling

Indication of any immediate medical attention and special treatment needed: No data available

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: 46 °C (115 °F) - closed cup

Lower/Upper explosion limit: Upper explosion limit: 6.1 %(V)/ Lower explosion limit: 0.9 %(V)

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture: Carbon oxides

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary

Further information: Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Clean-up Procedures: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations

SECTION 7: HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge

Storage: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal Protective Equipment (PPE)

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

Eye protection:

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Body protection: impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

General safety and hygiene measures: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: clear, liquid Color: colorless
Odor	no data available
Odor Threshold	no data available
pH	no data available
Melting point/freezing Point	Melting point/range: -24 °C (-11 °F) - lit.
Initial boiling point and boiling range	165 - 169 °C (329 - 336 °F) - lit.
Flash point	46 °C (115 °F) - closed cup
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Upper/lower flammability or explosive limits	Upper explosion limit: 6.1 %(V)/ Lower explosion limit: 0.9 %(V)
Vapor pressure	2.53 hPa (1.90 mmHg) at 20 °C (68 °F)
Vapor density	4.08 - (Air = 1.0)
Relative density	0.909 g/cm ³ at 25 °C (77 °F)

Water solubility	0.1 g/l at 25 °C (77 °F) - OECD Test Guideline 105 - slightly soluble
Partition Coefficient: n-octanol/water	log Pow: 3.48 at 25 °C (77 °F)
Auto-ignition temperature	574 °C (1,065 °F) at 1,013 hPa (760 mmHg)
Decomposition temperature:	no data available
Viscosity:	no data available
Explosive properties:	no data available
Relative vapour density	4.08 - (Air = 1.0)
Solubility in other solvents	
Diethylether - soluble	
Acetone - soluble	
Ethanol - soluble	
Benzene - soluble	

SECTION 10: STABILITY AND REACTIVITY

Conditions to avoid: Heat, flames and sparks

Substances to avoid: Strong oxidizing agents, Peroxides, Organometallic compounds, Metallic salts

Hazardous reactions: no data available

Decomposition products: no data available

Chemical stability: Stable under recommended storage conditions

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity :

LD50 Oral - Rat - male and female - 2,840 mg/kg

LC50 Inhalation - Rat - male - 6 h - 22.85 mg/l

LD50 Dermal - Rabbit - male - 14,560 mg/kg

Skin corrosion/irritation :

Skin - Rabbit

Result: Mild skin irritation - 4 h

Serious eye damage/eye irritation :

Eyes - Rabbit

Result: Mild eye irritation - 24 h

Respiratory or skin sensitization : no data available

Germ cell mutagenicity:

Ames test

S. typhimurium

Result: negative

Hamster

Lungs

Result: negative

Mutagenicity (micronucleus test)

Mouse - male

Result: negative

Carcinogenicity :

IARC: 2B - Group 2B: Possibly carcinogenic to humans (2-Phenylpropene)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity : no data available

Specific target organ toxicity - single exposure:

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure: no data available

Additional Information:

Repeated dose toxicity - Rat - male and female - Oral - No observed adverse effect level - > 100 mg/kg - Lowest observed adverse effect level - 200 mg/kg

RTECS: WL5075300

Cough, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity :

Toxicity to fish static test LC50 - Danio rerio (zebra fish) - 2.97 mg/l - 96 h
(OECD Test Guideline 203)

Toxicity to daphnia and static test EC50 - Daphnia magna (Water flea) - 1.645 mg/l - 48 h
Other aquatic invertebrates(OECD Test Guideline 202)

Toxicity to algae static test EC50 - Desmodesmus subspicatus (green algae) - 11.44 mg/l - 72 h
(OECD Test Guideline 201)

Toxicity to bacteria Respiration inhibition EC50 - Sludge Treatment - > 2,000 mg/l - 3 h
(OECD Test Guideline 209)

Biodegradability:

Biodegradability aerobic - Exposure time 28 d
Result: 56 % - Not readily biodegradable
(OECD Test Guideline 301D)

Bioaccumulative Potential:

Cyprinus carpio (Carp) - 56 d
at 25 °C - 0.3 mg/l
Bioconcentration factor (BCF): 15 - 140
(OECD Test Guideline 305)

Other: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

Results of PBT and vPvB assessment:

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

SECTION 13: DISPOSAL CONSIDERATIONS

Waste disposal of substance:

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Container disposal:

Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

DOT (US)

UN number: 2303 Class: 3 Packing group: III
Proper shipping name: Isopropenylbenzene
Poison Inhalation Hazard: No

IMDG

UN number: 2303 Class: 3 Packing group: III EMS-No: F-E, S-D
Proper shipping name: ISOPROPENYLBENZENE
Marine pollutant:yes

IATA

UN number: 2303 Class: 3 Packing group: III
Proper shipping name: Isopropenylbenzene

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION 15: REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

2-Phenylpropene CAS-No. 98-83-9 Revision Date 1994-04-01

Pennsylvania Right To Know Components

2-Phenylpropene CAS-No. 98-83-9 Revision Date 1994-04-01

New Jersey Right To Know Components

2-Phenylpropene CAS-No. 98-83-9 Revision Date 1994-04-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.

2-Phenylpropene CAS-No. 98-83-9 Revision Date 2014-05-02

SECTION 16: OTHER INFORMATION

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	2
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	2
Reactivity Hazard:	0

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DISCLAIMER OF RESPONSIBILITY

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