

SAFETY DATA SHEET

Product: STYRENE MONOMERS

Revision: 00

Date: 30/05/2025

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SECTION 1: IDENTIFICATION

GHS Product identifier:	STYRENE MONOMERS.
Recommended use of the chemical and restrictions on use:	Industrial use.
Supplier's details:	COMPANHIA BRASILEIRA DE ESTIRENO. Rua Hidrogênio, 1879 - Polo Petroquímico – Camaçari – BA - CEP: 42810-140, Brasil. (+55 71) 3415-6990. COMPANHIA BRASILEIRA DE ESTIRENO. Av. Nove de Abril, 1296 – Vila Elisabeth - Cubatão – SP, CEP: 11510-001, Brasil. (+55 13) 3023-5890 / (+55 13) 3023-5891.
Emergency phone number:	0800 110 8270 Pró-Química.

SECTION 2: HAZARD IDENTIFICATION

Classification of the substance or mixture:	Flammable liquids – Category 3. Aspiration hazard – Category 1. Skin corrosion/irritation – Category 2. Serious eye damage/eye irritation – Category 2A. Acute Toxicity Inhalation – Category 4. Specific target organ toxicity following single exposure – Category 3. Carcinogenicity – Category 2. Reproductive toxicity – Category 2. Specific target organ toxicity following repeated exposure – Category 1. Hazardous to the aquatic environment, short-term (acute) – Category 2. Hazardous to the aquatic environment, long-term (chronic) – Category 3.
Classification system adopted:	Globally Harmonized System of Classification and Labelling of Chemicals (GHS), United Nations, 2023.
Other hazards which do not result in classification:	Sparks can ignite the liquid and vapor. This can cause a fire or explosion.

GHS label elements, including precautionary statements

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Pictograms:



Signal word:

DANGER

Hazard statement(s):

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H372 Causes damage to hearing organs through prolonged or repeated exposure.
H401 Toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s):

PREVENTION

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical, ventilating, lighting equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe mist and vapours.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or with adequate ventilation.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.

RESPONSE PRECAUTIONARY

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P319 Get medical help if you feel unwell.
P301 + P316 IF SWALLOWED: Get emergency medical help immediately.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P332 + P317 If skin irritation occurs: Get medical help.
P337 + P317 If eye irritation persists: Get medical help.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use water fog, dry chemical powder, alcohol resistant foam and carbon dioxide (CO₂) to extinguish.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water or shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

STORAGE

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

DISPOSAL

P501 Eliminate the content and the container of compliance with local, state and federal laws.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**SUBSTANCES**

Chemical identity:	Styrene monomers.
Common name(s), synonym(s) of the substance:	Phenylethene; Vinylbenzene.
CAS number:	100-42-5.
Impurities and stabilizing additives which are themselves classified and which contribute to the	There are no known impurities that contribute to the hazard.

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classification of the
substance:**SECTION 4: FIRST-AID MEASURES****Routes of exposure**

Inhalation: Remove the victim to a ventilated area and keep him/her at rest in a position that is comfortable for breathing. If he/she feels unwell, contact a POISON CENTER or a doctor. Take this SDS with you.

Skin: In case of skin contact, immediately remove all contaminated clothing. Wash immediately with plenty of running water for at least 15 minutes. Wash contaminated clothing before reusing. Seek medical attention and bring this SDS.

Eye: Rinse thoroughly with water for several minutes. If you wear contact lenses, remove them if easy to do so and rinse again. Seek medical attention immediately. Bring this SDS.

Ingestion: Do not induce vomiting. Do not give anything by mouth to an unconscious person. Wash the victim's mouth with plenty of water. If vomiting occurs, tilt the patient forward or place him or her on the left side (up if possible) to keep the airway open and prevent aspiration. Keep the patient quiet and maintain a normal body temperature. Consult a POISON CENTER or physician. Bring this SDS.

Most important symptoms/effects, acute and delayed: May be fatal if swallowed and enters the respiratory tract. Causes skin irritation with dryness, flaking and redness. It causes serious eye irritation, with pain, redness and tearing. Harmful if inhaled. May cause respiratory tract irritation, with coughing and sneezing. High concentrations of vapor cause dizziness, intoxication and anesthesia. Suspected of causing cancer (lympho-hematopoietic such as leukemia, lymphoma). Suspected of damaging fertility or the unborn child. Causes damage to the hearing organs through repeated or prolonged exposure.

Indication of immediate medical attention and special treatment needed, if necessary: Avoid contact with the product when assisting the victim. Treatment for exposure should be directed at controlling the patient's symptoms and clinical condition. If the victim is not breathing, apply artificial respiration. Administer oxygen if the victim is having difficulty breathing. In case of contact with the skin, do not rub the affected

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area.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Suitable: Water fog, dry chemical powder, alcohol-resistant foam and carbon dioxide (CO ₂). Not recommended: direct water jets.
Specific hazards arising from the chemical:	Very dangerous when exposed to excessive heat or other sources of ignition such as sparks, open flames or flames from matches and cigarettes, welding operations, pilot lights and electric motors. May accumulate static charge due to flow or agitation. Vapors from heated liquid may ignite due to static discharge. Vapors may form explosive mixtures with air. Vapors may travel to an ignition source and cause flashback. Can travel great distances causing flashback or new fires in both open and confined spaces. Containers may explode if heated. Most of these vapors are heavier than air and may spread along the ground and accumulate in low or enclosed areas such as basements, manholes, etc. Danger of explosion in closed or open spaces or in manholes.
Special protective actions for fire-fighters:	Positive pressure self-contained breathing apparatus (SCBA) and full protective clothing. Containers and tanks involved in the fire may be cooled with water fog.

SECTION 6: ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel:	Isolate the leak from sources of ignition. Evacuate the area to a radius of at least 50 meters. Keep unauthorized personnel away from the area. Stop the leak if this can be done without risk. Prevent sparks or flames. Do not smoke. Do not touch damaged containers or spilled material unless wearing suitable clothing. Avoid exposure to the product. Stay away from low areas and keep the wind at your back. Use personal protective equipment as described in section 8.
For emergency responders:	Use full PPE with safety glasses, PVC or latex safety gloves, suitable protective clothing and closed shoes. The material used must be waterproof. In the event of a leak, where exposure is high, the use of

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respiratory protection equipment against organic vapors is recommended; in high exposure, the use of self-contained breathing apparatus (SCBA) with positive pressure is recommended. Isolate the leak from sources of ignition. Evacuate the area within a radius of at least 100 meters. Keep unauthorized persons away from the area. Stop the leak if this can be done without risk.

Environmental precautions:

Prevent the product from reaching soil and watercourses. Notify the relevant authorities if the product has caused environmental pollution (if it has reached watercourses or if it has contaminated soil or vegetation).

Methods and materials for
containment and cleaning up:

Use water mist or vapor suppressant foam to reduce vapor dispersion. Use natural or spill containment barriers. Collect the spilled product and place it in appropriate containers. Absorb the remaining product with dry sand, earth, vermiculite, or any other inert material. Place the adsorbed material in appropriate containers and remove them to a safe location. Use non-sparking tools to collect the absorbed material. For final disposal, proceed in accordance with Section 13 of this SDS. For large spills, the liquid should be confined in a dike away from the spill for later appropriate disposal. Water fog may be used to reduce vapors. For final disposal, proceed in accordance with Section 13 of this SDS.

SECTION 7: HANDLING AND STORAGE**Precautions for safe handling**Safe handling of the
substance or mixture:

Schedule first aid before starting any activity with the product. The use of the product is restricted to professionals. Attention - Avoid exposure - obtain special instructions before use. Handle in a ventilated area or with a general ventilation/local exhaust system. Avoid formation of vapor or mists. Avoid exposure to the product. Avoid contact with incompatible materials. Use personal protective equipment as described in section 8.

General hygiene:

Wash your hands and face thoroughly after handling and before eating, drinking, smoking or using the toilet. Contaminated clothing should be changed and washed before reuse. Remove contaminated clothing and protective equipment before entering eating areas.

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Conditions for safe storage, including any incompatibilities

Technical measures for prevention of fire and explosion:	Keep away from heat, sparks, open flames and hot surfaces. — Do not smoke. Keep container tightly closed. Ground the container and receiver during transfers. Use only non-sparking tools. Avoid the build-up of electrostatic charges. Use explosion-proof electrical, ventilation and lighting equipment.
Adequate conditions:	Store in a well-ventilated place, away from sunlight. Keep the container closed. Keep a temperature controller in the storage location that can guarantee the following conditions: temperature up to 29°C. For product stabilization, it is necessary to add polymerization inhibitors, such as Tert-butylcatechol. Maintain the level of inhibitor and dissolved oxygen. The recommended oxygen level is 10 to 15 ppm. The recommended inhibitor level is 10 to 15 ppm. This product may react dangerously with some incompatible materials as highlighted in Section 10. Keep away from incompatible materials.
Packaging compatibilities:	It is recommended to keep them in their original packaging.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters**

Occupational exposure limit:	<table border="1"><thead><tr><th>Chemical agent</th><th>TWA-TLV (ACGIH, 2025)</th></tr></thead><tbody><tr><td>Styrene monomer, OTO; A3</td><td>TWA 10 ppm STEL 20 ppm</td></tr></tbody></table>	Chemical agent	TWA-TLV (ACGIH, 2025)	Styrene monomer, OTO; A3	TWA 10 ppm STEL 20 ppm
	Chemical agent	TWA-TLV (ACGIH, 2025)			
Styrene monomer, OTO; A3	TWA 10 ppm STEL 20 ppm				
Biological limit:	A3: Confirmed animal carcinogen with unknown relevance to humans (ACGIH). OTO: Ototoxic. BEI (ACGIH, 2025): <u>Styrene:</u> Urine mandelic + Phenylglyoxylic acids (end of day): 150 mg/g creatinine. Ne Urine Styrene (end of day): 20 µg/L. Ne: Non-specific.				

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Other limits and values:	Styrene: IDLH: 700 ppm (NIOS, 2017).
Appropriate engineering controls:	Use explosion-proof ventilation equipment. Provide mechanical ventilation and direct exhaust to the outside environment. Ventilation rates should be commensurate with the conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne contamination levels below recommended exposure limits.
Individual protection measures, such as personal protective equipment (PPE)	
Eye/face protection:	It is recommended to wear wide-vision safety glasses and a visor.
Skin protection:	It is recommended to use waterproof and chemical-resistant gloves, such as PVC, which must be approved, and to ensure safe handling, a risk assessment must be carried out. Protective clothing and, if necessary, flame-retardant anti-static clothing and anti-static safety shoes.
Respiratory protection:	It is recommended to use a respirator with a filter for organic vapors. It is recommended that a risk assessment be carried out to adequately define respiratory protection considering the conditions of use of the product.
Thermal hazards:	There are no known thermal hazards from the products.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid.
Colour:	Not available.
Odour:	Not available.
Melting point/freezing point:	-30.6°C.
Boiling point or initial boiling point and boiling range:	145°C.
Flammability:	Flammable.
Lower and upper explosion limit /flammability limit:	Higher: 6.8%. Lower: 0.9%.
Flash point:	31°C.

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Auto-ignition temperature:	490°C.
Decomposition temperature:	Not available.
pH:	Not applicable.
Kinematic viscosity:	0.7 mm ² /s.
Solubility:	Immiscible in water. (310 mg/L at 25°C).
Partition coefficient n-octanol/water (log value):	Log kow: 2.95.
Vapour pressure:	6.62 hPa at 20°C.
Density and/or relative density:	0.906 g/cm ³ at 20°C.
Relative vapour density:	3.6.
Particle characteristics:	Not applicable.
Other information:	SAPT: > 50°C at 7 ppm inhibitor level.

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	No reactivity of the product is expected.
Chemical stability:	Unstable product under normal temperature and pressure conditions. Used as a stabilizer: Polymerization inhibitors, such as Tert-butylcatechol.
Possibility of hazardous reactions:	Reacts violently with strong acids and strong oxidizing agents, with risk of fire and explosion. Vapors may form an explosive mixture in contact with air. The product may polymerize violently in contact with metallic salts, peroxides, rust or in the absence of air.
Conditions to avoid:	High temperatures, ignition source, light and contact with incompatible materials.
Incompatible material:	Acids, oxidizing agents, metal salts, rust, potassium hydroxide, metal halides, cellulose, clay-based absorbents, sawdust, copper alloys and peroxides.
Hazardous decomposition products:	Decomposition of the product may release toxic gases.

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SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity:	<p>Harmful if inhaled. The product is not expected to show acute toxicity by oral or dermal routes.</p> <p><u>Styrene:</u> LD₅₀ (oral, rats): > 5,000 mg/kg. LD₅₀ (dermal, rabbits): > 2,000 mg/kg. LC₅₀ (inhalation, rats, 4h): 11.8 mg/L.</p>
Skin corrosion/irritation:	<p>Contact with the product causes skin irritation with redness, dryness and flaking.</p> <p><u>Styrene:</u> Testing on rabbits caused skin irritation.</p>
Serious eye damage/irritation:	<p>Contact with the product causes eye irritation with pain, redness and tearing.</p> <p><u>Styrene:</u> Test on rabbits cause moderate conjunctival irritation (inflammation) in the animals' eyes.</p>
Respiratory or skin sensitization:	<p>The product is not expected to cause respiratory or skin sensitization.</p> <p><u>Styrene:</u> Skin sensitization testing in guinea pigs did not cause skin sensitization in exposed animals. Due to widespread exposure to Styrene in industries, no human data have been reported regarding the sensitizing potential of Styrene. Therefore, extensive human experience indicates that Styrene is not a skin sensitizer.</p>
Germ cell mutagenicity:	<p>The product is not expected to cause germ cell mutagenicity.</p> <p><u>Styrene:</u> There is no convincing evidence that Styrene has shown mutagenic activity in humans. Available <i>in vivo</i> data in experimental animals suggest that Styrene is weakly positive in indicator tests detecting SCEs, DNA strand breaks and DNA adducts. In contrast, an <i>in vivo</i> UDS test performed in accordance with international guidelines did not reveal a genotoxic effect of Styrene on the liver of mice.</p>
Carcinogenicity:	<p>Suspected of causing cancer.</p>

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	<p><u>Styrene:</u> ACGIH classifies Styrene as group A3 – Confirmed animal carcinogen with unknown relevance to humans. IARC classifies Styrene as group 2A – Probably carcinogenic to humans.</p>
Reproductive toxicity:	<p>Suspected of damaging fertility or the unborn child.</p> <p><u>Styrene:</u> Animal studies have shown a decrease in the growth rate of F2 generation offspring, a decrease in the weight of the pituitary gland, among other effects.</p>
STOT - Single exposure:	<p>It can cause irritation of the respiratory tract, with coughing and sneezing. High concentrations of vapor cause dizziness, drunkenness and anesthesia.</p>
STOT - Repeated exposure:	<p>Causes damage to the hearing organs through repeated or prolonged exposure.</p> <p><u>Styrene:</u> There is evidence that maximum hearing loss is reached after one to several weeks of exposure and that ototoxicity does not increase with prolonged exposure. The ACGIH classifies Styrene as ototoxic.</p>
Aspiration hazard:	<p>May be fatal if swallowed and enters airways.</p>

SECTION 12: ECOLOGICAL INFORMATION

	<p>Toxic to aquatic organisms. Harmful to aquatic organisms with long lasting effects.</p>
Toxicity:	<p><u>Styrene:</u> LC₅₀ (<i>Pimephales promelas</i>, 96h): 10 mg/L. LC₅₀ (<i>Pimephales promelas</i>, 96h): 4.02 mg/L. EC₅₀ (<i>Daphnia magna</i>, 48h): 4.7 mg/L. LC₅₀ (<i>Hyalella azteca</i>, 96h): 9.5 mg/L. ECr₅₀ (<i>Selenastrum capricornutum</i>, 72h): 4.9 mg/L. NOEC (<i>Daphnia magna</i>, 21 days): 1.01 mg/L.</p>
Persistence and degradability:	<p>The product is not expected to be persistent; it is expected to be rapidly degraded.</p> <p><u>Styrene:</u></p>

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	Biodegradability: 100% in 28 days.
Bioaccumulative potential:	The product is expected to have low bioaccumulative potential in aquatic organisms. <u>Styrene:</u> BCF: 74.0. Log know: 2.95.
Mobility in soil:	No available.
Other adverse effects:	No other effects of the product are known.

SECTION 13: DISPOSAL CONSIDERATIONS**Elimination methods**

Product:	Treatment and disposal should be evaluated specifically for each product. Keep the remaining product in its original, tightly closed container. Disposal should be carried out as directed for the product.
Product remains:	Keep the remaining product in its original packaging and tightly closed. Dispose of according to the product's guidelines.
Packaging used:	Do not reuse empty packaging. These may contain product residue and should be kept sealed and sent for proper disposal as specified for the product.

SECTION 14: TRANSPORT INFORMATION

Road:	UN - "United Nations" Recommendations on the TRANSPORT OF DANGEROUS GOODS. Model Regulations
UN Number:	2055
UN Proper Shipping Name:	STYRENE MONOMER, STABILIZED
Transport hazard class(es):	3
Packing group:	III
Rail:	Convention concerning International Carriage by Rail (COTIF) Appendix C - Regulations concerning the International Carriage of Dangerous Goods by Rail - RID
UN Number:	2055
UN Proper Shipping Name:	STYRENE MONOMER, STABILIZED

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Transport hazard class(es):	3
Packing group:	III
Sea:	<i>IMO – International Maritime Organization International Maritime Dangerous Goods Code (IMDG Code)</i>
UN Number:	2055
UN Proper Shipping Name:	STYRENE MONOMER, STABILIZED
Transport hazard class(es):	3
Packing group:	III
Marine pollutant:	The product is not considered a marine pollutant (IMO).
EmS:	F-E, S-D
Air:	<i>IATA - International Air Transport Association Dangerous Goods Regulation (DGR)</i>
UN Number:	2055
UN Proper Shipping Name:	STYRENE MONOMER, STABILIZED
Transport hazard class(es):	3
Packing group:	III
Special precautions for user:	There is no need of special precautions.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Consult regulations: - International Maritime Organization. MARPOL: Articles, protocols, annexes, unified interpretations of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, consolidated edition. IMO, London, 2006. - International Maritime Organization. IBC code: International code for the construction and equipment of shipping carrying dangerous chemicals in bulk: With Standards and guidelines relevant to the code. IMO, London, 2007.

SECTION 15: REGULATORY INFORMATION

Chemical regulations	Convention concerning Safety in the use of Chemicals at Work (Convention 170) - International Labour Organization, 1990. SGA. Globally Harmonized System of Classification and Labeling of Chemical Products. 10. Ed. New York: United Nations, 2023.
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SECTION 16: OTHER INFORMATION

This SDS was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other materials, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

SDS prepared in May 2025.

Abbreviations:

ACGIH – American Conference of Governmental Industrial Hygienists

AIHA – American Industrial Hygiene Association

BCF – Bioconcentration Factor

BEI – Biological Exposure Index

CAS – Chemical Abstracts Service

C – Ceiling

EC₅₀ – Effective Concentration 50%

LC₅₀ – Lethal Concentration 50%

LD₅₀ – Lethal Dose 50%

ERPG - Emergency Response Planning Guidelines

LEL – Lower Explosive Limit

UEL – Upper Explosive Limit

NIOSH – National Institute of Occupational Safety and Health

OSHA – Occupational Safety & Health Administration

PEL – Permissible Exposure Limit

REL – Recommended Exposure Limit

STEL – Short Term Exposure Limit

TLV – Threshold Limit Value

TWA – Time Weighted Average

Bibliographic references:

ACGIH. AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIALS HYGIENISTS. TLVs®

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ECHEM. The Global Portal to Information on Chemical Substances OECD. Available at: <https://www.echemportal.org/echemportal/substancesearch/substancesearch_execute.action>. Access: May 2025.

IARC – INTERNATIONAL AGENCY FOR RESEARCH ON CANCER. Available at: <<http://monographs.iarc.fr/ENG/Classification/index.php>>. Access: May 2025.

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