

Revision date: 04/07/2018

IN0001_P

Version: 1.0

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SECTION 1: Identification				
1.1. Product identifier				
Product form Trade name Chemical name Substance type CAS-No. Formula		BITED MONOMER tyrene monomer, phenylethylene t	, ethenyl benzene	
1.2. Relevant identified uses of the	e substance or mixture a	nd uses advised against		
Recommended use	: Mainly used as a	a precursor in the manufacture of	polystyrene. Also used as so	olvent.
1.3.Supplier's detailsVIDEOLAR - INNOVA S/ABR 386, Rodovia Tabaí/Canoas, Km 41995853-000 Triunfo/RS - BrasilT +55 (51) 3457-5800		Contorno 212. Bairro: III Pólo Petr	oquímico	
1.4. Emergency telephone number	er : (51) 3457-5888			
	()			
SECTION 2: Hazards identifica				
2.1. Classification of the substan				
Classification according to the United Flammable liquids, Category 3 Acute toxicity (oral), Category 5 Acute toxicity (dermal), Category 5 Acute toxicity (inhalation:dust,mist) Not cl Skin corrosion/irritation, Category 2 Specific target organ toxicity — Repeated Hazardous to the aquatic environment — Full text of H statements : see section 16	assified exposure, Category 1	H226 H303 H313 H315 H372 H401		
2.2. Label elements				
Labelling according to the United Nation Hazard pictograms (GHS-UN)	HS02	GHS07 GHS08		
Signal word (GHS-UN)	: Danger			
Hazard statements (GHS-UN)	H303 - May be h H313 - May be h H315 - Causes s	lamage to organs through prolong	ged or repeated exposure.	
Precautionary statements (GHS-UN)	: P210 - Keep awa smoking. P233 - Keep cor P240 - Ground a P241 - Use expl P242 - Use non- P243 - Take acti P260 - Do not bi P264 - Wash ha P270 - Do not ea P273 - Avoid rel P280 - Wear pro P302+P352 - IF	ay from heat, hot surfaces, sparks tainer tightly closed. Ind bond container and receiving osion-proof equipment. sparking tools. on to prevent static discharges. eathe vapours, mist. nds, forearms and face thoroughl at, drink or smoke when using this ease to the environment. tective gloves, eye protection. ON SKIN: Wash with plenty of wa 53 - IF ON SKIN (or hair): Take of	equipment. y after handling. s product.	
05/07/2018	EN (English)			1/8

Safety Data Sheet

according to the United Nations GHS (Rev. 5, 2013)

P312 - Call a POISON CENTER or doctor if you feel unwell. P314 - Get medical advice/attention if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use media carbon dioxide (CO_2), alcohol resistant foam, dry extinguishing powder to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

SECTION 3: Composition/i	nformation on ingre	dients	
3.1. Substances			
Substance type	: Mono-constituent		
Chemical name	: Vinyl ben	zene, styren	e monomer, phenylethylene, ethenyl benzene
Name	Product identifier	%	Classification according to the United Nations GHS
Styrene inhibited monomer (Main constituent)	(CAS-No.) 100-42-5	> 99.7	Flammable liquids, Category 3, H226 Acute toxicity (oral), Category 5, H303 Acute toxicity (dermal), Category 5, H313 Acute toxicity (inhalation:dust,mist) Not classified Skin corrosion/irritation, Category 2, H315 Specific target organ toxicity — Repeated exposure, Category 1, H372 Hazardous to the aquatic environment — Acute Hazard, Category 2, H401

Full text of H-statements: see section 16

3.2. Mixtures Not applicable

Description of first aid measures rst-aid measures general rst-aid measures after inhalation	 Seek medical attention immediately. Remove person to fresh air and keep comfortable for breathing. Administer oxygen if breathing is difficult. Apply artificial respiration if breathing stopped. Immediately call a POISC
rst-aid measures after inhalation	is difficult. Apply artificial respiration if breathing stopped. Immediately call a POISC
	CENTER/doctor.
rst-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediat with plenty of water. Gently wash with plenty of soap and water. Be careful, the product m remain trapped under clothing, footwear or a wrist-watch. If irritation persists, consult a doctor
rst-aid measures after eye contact	: Flush immediately eyes thoroughly with water for at least 15 minutes. Remove contact lense if present and easy to do. Continue rinsing. Refer the victim to the medical service.
rst-aid measures after ingestion	: Do not induce vomiting. If swallowed, rinse mouth with water (only if the person is conscious) the person is fully conscious, make him/her drink plenty of water. Never give an unconscion person anything to drink. If vomiting occurs have person lean forward. Prevent aspiration vomit. Take medical advice immediately.
2. Most important symptoms an	d effects, both acute and delayed
/mptoms/effects	: Causes damage to organs through prolonged or repeated exposure.
mptoms/effects after inhalation	: May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throwith constricting sensation of the larynx and difficulty in breathing.
mptoms/effects after skin contact	: May be harmful in contact with skin. Causes skin irritation, itching, redness, blistering.
mptoms/effects after eye contact	: Causes eye irritation, stinging, redness.
mptoms/effects after ingestion	: May be harmful if swallowed. Ingestion may cause nausea, vomiting, burns or irritation of t linings of the mouth, throat, and gastrointestinal tract.
3. Indication of any immediate n	nedical attention and special treatment needed

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Dry chemical, CO ₂ , water spray or regular foam.
Unsuitable extinguishing media	: Do not use a heavy water stream. Use of heavy stream of water may spread fire.
5.2. Special hazards arising from the sub	stance or mixture
Fire hazard	: Flammable liquid and vapour. The vapours are denser than air and may travel along the ground. Distance ignition possible. Agitation can cause build up of electrostatic charge. Vapours may cause fire/explosion if source of ignition is present. In case of fire and/or explosion do not breathe fumes.

Safety Data Sheet

according to the United Nations GHS (Rev. 5, 2013)

Explosion hazard	 Vapours may form explosive mixture with air. Prolonged exposure to fire may cause containers to rupture/explode.
Reactivity	: Closed containers may rupture/explode during runaway polymerization.
5.3. Advice for firefighters	
Precautionary measures fire	: Keep container closed when not in use. This product is not to be used under conditions of poor ventilation.
Firefighting instructions	: Combat amount of the fire outbreak in relation to the wind direction. Get the package away from the fire if this can be done without risk. Do not use water jet to extinguish. Cool laterally with water containers exposed to flames, even after the fire is extinguished. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Use self-contained breathing apparatus and chemically protective clothing.
SECTION 6: Accidental release m	neasures
6.1. Personal precautions, protectiv	e equipment and emergency procedures
General measures	: Eliminate every possible source of ignition. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Avoid contact with skin and eyes. Clean up any spills as soon as possible, using an absorbent material to collect it. Stop leak if safe to do so. Absorb spillage to prevent material damage. It is recommended to install a fire alarm and leak detection system in the storage and use areas of the product.
6.1.1. For non-emergency personnel	

 Protective equipment
 : Wear recommended personal protective equipment.

 Emergency procedures
 : No flames, no sparks. Eliminate all sources of ignition. Do not touch or walk on the spilled product. Evacuate area. Only qualified personnel equipped with suitable protective equipment may intervene. Notify fire brigade and environmental authorities. Do not breathe vapours, spray.

 6.1.2. For emergency responders
 : Use self-contained breathing apparatus and chemically protective clothing. Gloves. Wear security glasses which protect from splashes. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures

6.2. Environmental precautions

Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Do not allow product to spread into the environment. Notify authorities if product enters sewers or public waters.

: Keep away from combustible material. All equipment used when handling the product must be

grounded. Evacuate unnecessary personnel. Stop leak if safe to do so.

6.3. Methods and material for contain	3. Methods and material for containment and cleaning up				
For containment	 Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. 				
Methods for cleaning up	 Absorb remaining liquid with sand or inert absorbent and remove to safe place. Clean contaminated surfaces with an excess of water. Absorb spillage to prevent material damage. Notify authorities if product enters sewers or public waters. 				
Other information	: Dispose of materials or solid residues at an authorized site.				

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Provide adequate ventilation to minimize dust and/or vapour concentrations. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear personal protective equipment. Keep only in original container. Do not handle until all safety precautions have been read and understood. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Do not breathe dust, fume, gas, mist, vapours, spray. Avoid contact with skin and eyes.
Hygiene measures	: Always wash hands after handling the product. Remove contaminated clothes. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.
Additional hazards when processed	: Flammable vapours may accumulate in the container.
7.2. Conditions for safe storage, including	ng any incompatibilities
Technical measures	: Ensure adequate ventilation, especially in confined areas. Store in tightly closed, leak-proof containers. Ground/bond container and receiving equipment.
Storage conditions	: Keep cool. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Protect from sunlight.
Incompatible materials	: Catalysts for alkylation (H ₂ SO ₄ , H ₃ PO ₄ , BF ₃ , AlCl ₃), halogens and hydrogen halides, sodium hydroxide.
Packaging materials	: Store always product in container of same material as original container.

Safety Data Sheet

according to the United Nations GHS (Rev. 5, 2013)

SECTION 8: Exposure controls/personal protection			
8.1. Control parameters			
STYRENE INHIBITED	STYRENE INHIBITED MONOMER (100-42-5)		
USA - ACGIH	Local name		Styrene, monomer
USA - ACGIH	ACGIH TWA (ppm)		20 ppm
USA - ACGIH	ACGIH STEL (ppm)		40 ppm
8.2. Appropriate e	engineering controls		
vicinity of any potential exposure. Measure cor		we wash fountains and safety showers should be available in the immediate potential exposure. Measure concentrations regularly, and at the time of any ng in conditions likely to have consequences on workers exposure. Ensure good he work station.	
Environmental exposure controls : Do not exceed the occupational exposure limits (OEL). Avoid release to the environmental		the occupational exposure limits (OEL). Avoid release to the environment.	
8.3. Individual protection measures, such as personal protective equipment (PPE)			
Hand protection : Protective gloves made of PVC.		ves made of PVC.	
Eye protection : Wear closed safety glasses.		afety glasses.	
Skin and body protection : Wear suitable protective clothing.		protective clothing.	
Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection erecommended.			

8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
Physical state	: Liquid		
Appearance	: No data available		
Molecular mass	: 104,16 g/mol		
Colour	: Colourless		
Odour	: Strong, sweet and penetrating		
Odour threshold	: 0,15 ppm 0,6 mg/m ³		
pH	: No data available		
pH solution	: No data available		
Relative evaporation rate (butylacetate=1)	: 0,49		
Relative evaporation rate (ether=1)	: 16		
Melting point	: -30,6 °C		
Freezing point	: No data available		
Boiling point	: 146 °C		
Flash point	: 31,1 °C (closed cup); 36,7°C (open cup)		
Auto-ignition temperature	: 490 °C		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: Not applicable		
Vapour pressure	: 6 hPa (20ºC)		
Vapour pressure at 50 °C	: No data available		
Relative vapour density at 20 °C	: 3,6		
Relative density	: 0,91		
Relative density of saturated gas/air mixture	: No data available		
Density	: 906 kg/m³		
Relative gas density	: No data available		
Solubility	: Poorly soluble in water. Soluble in ethanol, ether, acetone, methanol, toluene. Water: 0,03 g/100ml (25°C)		
Log Pow	: No data available		
Log Kow	: 2,96		
Viscosity, kinematic	: 0,8388521 mm²/s		
Viscosity, dynamic	: 0,00076 Pa.s (20°C)		
Explosive properties	: No data available		

Safety Data Sheet

according to the United Nations GHS (Rev. 5, 2013)

	20.0)
Oxidising properties	: No data available
Explosive limits	: 1,1 - 8 vol % 45 - 350 g/m³
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available
9.2. Other information	
Saturation concentration	: 25 g/m³
VOC content	: 100 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Closed containers may rupture/explode during runaway polymerization.

10.2. Chemical stability

In use may form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Liquids/vapours may ignite or react with other materials.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid formation of vapours. Eliminate all sources of ignition.

10.5. Incompatible materials

Catalysts for alkylation (H₂SO₄, H₃PO₄, BF₃, AlCI₃), halogens and hydrogen halides, sodium hydroxide.

10.6. Hazardous decomposition products

May liberate toxic gases.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (oral)	: May be harmful if swallowed.	
Acute toxicity (dermal)	: May be harmful in contact with skin.	
Acute toxicity (inhalation)	Not classified.	
STYRENE INHIBITED MONOMER (100-42-5)		
LD50 oral rat	5000 mg/kg	
LD50 dermal rat	2820 mg/kg	
LD50 dermal rabbit	5010 mg/kg	
LC50 inhalation rat (mg/l)	12 mg/l/4h	
LC50 inhalation rat (ppm)	2770 ppm/4h	
Skin corrosion/irritation	: Exposure to liquid and vapors may cause skin irritation. Prolonged contact of liquid with skin may cause blistering. Repeated contact degreases the skin causing dryness and cracking.	
Serious eye damage/irritation	: Exposure to liquid and vapors may cause eye irritation.	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: The mutagenic potential of styrene has been tested on bacteria, animals and human cells with conflicting results. Many positive results are observed in the presence of metabolic activation. A metabolic product of styrene, styrene oxide, may cause mutations.	
Carcinogenicity	: There are not enough data to indicate that styrene causes cancer in humans. Some studies suggest an increased risk of cancer. However, multiple exposure to different chemicals and the small group studied limit the validity of these results. Styrene is classified as possible carcinogenic to humans by IARC.	
Reproductive toxicity	: Styrene is considered moderately toxic to fetuses of rats, mice, rabbits and hamsters exposed orally or by inhalation. No study has determined that styrene causes birth defects in tested animals.	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Causes damage to organs (auditory organs) through repeated or prolonged exposure. Laboratory animals exposed to high concentrations of styrene had a hearing loss and damage to the nervous system. The importance of these data for humans is unknown in relation to adequate levels of occupational exposure.	
Aspiration hazard	: Not classified	
STYRENE INHIBITED MONOMER (100-42-5)		
Viscosity, kinematic	0,8388521 mm²/s	

Safety Data Sheet

according to the United Nations GHS (Rev. 5, 2013)

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SECTION 12: Ecological information	
12.1. Toxicity	
Acute aquatic toxicity	: Toxic to aquatic life.
Chronic aquatic toxicity	Not classified
STYRENE INHIBITED MONOMER (100-42-5)	
LC50 fish 1	9,1 mg/l
12.2 Development and degradability	
12.2. Persistence and degradability	
STYRENE INHIBITED MONOMER (100-42-5)	
COD - Chemical oxygen demand ThOD - Theoretical oxygen demand	2,8 g O /g substance 3,07 g O /g substance
	3,07 g O /g substance
12.3. Bioaccumulative potential	
STYRENE INHIBITED MONOMER (100-42-5)	
BCF fish 1	13,5
Log Kow	2,96
Log Koc	2,55 ; Koc: 352
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
12.4. Mobility in soil	
STYRENE INHIBITED MONOMER (100-42-5)	
Surface tension	0,032 N/m (19°C)
12.5. Other adverse effects	
Other adverse effects	: No additional information available
SECTION 13: Disposal consideration	IS
13.1. Disposal methods	
Waste treatment methods	: Must follow special treatment according to local regulation. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Flammable vapours may accumulate in the container. Do not re-use empty containers.
SECTION 14: Transport information	
In accordance with IMDG / IATA / UN RTDG	
In accordance with IMDG / IATA / UN RTDG 14.1. UN number	. 2055
In accordance with IMDG / IATA / UN RTDG 14.1. UN number UN-No.(UN RTDG)	: 2055
In accordance with IMDG / IATA / UN RTDG 14.1. UN number UN-No.(UN RTDG) UN-No. (IMDG)	: 2055
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In accordance with IMDG / IATA / UN RTDG 14.1. UN number UN-No.(UN RTDG) UN-No. (IMDG) UN-No. (IATA) 14.2. Proper Shipping Name	: 2055 : 2055
In accordance with IMDG / IATA / UN RTDG 14.1. UN number UN-No.(UN RTDG) UN-No. (IMDG) UN-No. (IATA) 14.2. Proper Shipping Name Proper Shipping Name (UN RTDG)	: 2055 : 2055 : STYRENE MONOMER, STABILIZED
In accordance with IMDG / IATA / UN RTDG 14.1. UN number UN-No.(UN RTDG) UN-No. (IMDG) UN-No. (IATA) 14.2. Proper Shipping Name Proper Shipping Name (UN RTDG) Proper Shipping Name (IMDG)	 2055 2055 STYRENE MONOMER, STABILIZED STYRENE MONOMER, STABILIZED
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In accordance with IMDG / IATA / UN RTDG 14.1. UN number UN-No. (UN RTDG) UN-No. (IMDG) UN-No. (IATA) 14.2. Proper Shipping Name Proper Shipping Name (UN RTDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) 14.3. Transport hazard class(es) UN RTDG Transport hazard class(es) (UN RTDG)	 2055 2055 STYRENE MONOMER, STABILIZED STYRENE MONOMER, STABILIZED STYRENE MONOMER, STABILIZED 3
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Safety Data Sheet

according to the United Nations GHS (Rev. 5, 2013)

IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	: 3 : 3	
14.4. Packing group		
Packing group (UN RTDG)	: 111	
Packing group (IMDG)	: 111	
Packing group (IATA)	: III	
14.5. Environmental hazards		
Dangerous for the environment	: No	
Marine pollutant	: No	
Other information	: No supplementary information available	
14.6. Special precautions for user		
- UN RTDG		
Limited quantities (UN RTDG)	: 5L	
Excepted quantities (UN RTDG)	: E1	
Packing instruction (UN RTDG)	: P001, IBC03, LP01	
Portable tank and bulk container special instructions (UN RTDG)	: T2	
Portable tank and bulk container special provisions (UN RTDG)	: TP1	
- IMDG		
Special provisions (IMDG)	: 386	
Packing instructions (IMDG)	: P001	
IBC packing instructions (IMDG)	: IBC03	
Tank instructions (IMDG)	: T2	
Tank special provisions (IMDG)	: TP1	
EmS-No. (Fire)	: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS	
EmS-No. (Spillage)	: S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS	
Stowage category (IMDG)	: C	
Flash point (IMDG)	: 32°C c.c.	
Properties and observations (IMDG)	: Colourless, oily liquid. Flashpoint: 32°C c.c. Explosive limits: 1,1% to 6,1% Immiscible wi water. Irritating to skin, eyes and mucous membranes.	
- IATA		
PCA Excepted quantities (IATA)	: E1	
PCA Limited quantities (IATA)	: Y344	
PCA limited quantity max net quantity (IATA)	: 10L	
PCA packing instructions (IATA)	: 355	
PCA max net quantity (IATA)	: 60L	
CAO packing instructions (IATA)	: 366	
CAO max net quantity (IATA)	: 220L	
Special provisions (IATA)	: A209	
ERG code (IATA)	: 3L	

Safety Data Sheet

according to the United Nations GHS (Rev. 5, 2013)

SECTION 15: Regulatory information		
15.1. Safety, health, and environ	mental national regulations specific for the product	
Regulatory reference	: IMDG Code - International Maritime Dangerous Goods.	
	IATA - International Air Transport Association.	
	UN - Recommendations on the Transport of Dangerous Goods.	
	GHS - Globally Harmonized System of Classification and Labelling of Chemicals	
SECTION 16: Other informati	on	
Data Source	: VIDEOLAR - INNOVA S/A.,- FISPQ – ESTIRENO MONÔMERO INIBIDO; May 15th, 2017.	
Abbreviations and Acronyms	: ACGIH – American Conference of Governement Industrial Hygienists, United States	
	IARC – International Agency for Research on Cancer	
	BCF – Bioconcentration Factor	
	CAS – Chemical Abstracts Service	
	LC50 – Lethal Concentrtion 50%	
	VOC – Volatile Organic Compounds	
	LD50 – Lethal Dose 50%	
	GHS – Globally Harmonized System of Classification and Labeling of Chemicals	
	USA – United States of America	
	Kow – Partition coefficient in the octanol phase / aqueous phase	
	OEL – Occupational exposure limit	
	PVC – Polyvinyl chloride	
	STEL – Short Term Exposure Limit	
	TWA – Time Weighted Average	

text of fi-statements.		
H226	Flammable liquid and vapour.	
H303	May be harmful if swallowed	
H313	May be harmful in contact with skin	
H315	Causes skin irritation.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H401	Toxic to aquatic life	
	H226 H303 H313 H315 H372	

SDS UN

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.