

### SECTION 1: Identification

#### 1.1. GHS Product identifier

Product form : Substance  
 Trade name : ST 300N BL  
 Type of product : Group, Polymers

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Packages and thermal insulation.

#### 1.4. Supplier's details

VIDEOLAR - INNOVA S/A  
 BR 386, Rodovia Tabai/Canoas, Km 419, Complexo Básico, Via do Contorno 212. Bairro: III Pólo Petroquímico  
 95853-000 Triunfo/RS - Brasil  
 T +55 (51) 3457-5800

#### 1.5. Emergency phone number

Emergency number : (51) 3457-5888

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

##### Classification according to the United Nations GHS

Hazardous to the aquatic environment — Acute Hazard, Category 3 H402 On basis of test data

Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412 Calculation method

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### Labelling according to the United Nations GHS

Hazard pictograms (GHS UN) :

Signal word (GHS UN) : -

Hazard statements (GHS UN) : H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS UN) : P273 - Avoid release to the environment.  
 P501 - Dispose of contents and container to a hazardous or special waste collection point.

#### 2.3. Other hazards which do not result in classification

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Name : ST 300N BL

Substance identification codes: See section 1.1

Name	Product identifier	%	Classification according to the United Nations GHS
Polystyrene	(CAS-No.) 9003-53-6	> 85	Not classified
N-pentane	(CAS-No.) 109-66-0	< 6	Flam. liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Isopentane	(CAS-No.) 78-78-4	< 3	Flam. liq. 1, H224 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Carbon black	(CAS-No.) 1333-86-4	< 6	Not classified

Full text of H-statements: see section 16

#### 3.2. Mixtures

Not applicable

### SECTION 4: First-aid measures

#### 4.1. Description of necessary first-aid measures

First-aid measures general : Seek medical attention immediately.

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First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Administer oxygen if breathing is difficult. Apply artificial respiration if breathing stopped. Seek medical advice immediately, show the product label where possible.
First-aid measures after skin contact	: Gently wash with plenty of soap and water. Get medical advice if skin irritation persists.
First-aid measures after eye contact	: Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting. If swallowed, rinse mouth with water (only if the person is conscious). If vomiting occurs have person lean forward. Prevent aspiration of vomit. Get immediate medical advice/attention.

### 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects	: Fuel solid. Dust may be irritating to eyes, mucous membranes and upper respiratory tract. Risk of thermal burns on contact with molten product.
Symptoms/effects after inhalation	: Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: Exposure to dust may cause skin irritation.
Symptoms/effects after eye contact	: Dust from this product may cause eye irritation.
Symptoms/effects after ingestion	: None under normal conditions.

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

No additional information available

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

Suitable extinguishing media	: Water spray, foam, chemical powder, carbon dioxide (CO <sub>2</sub> ).
Unsuitable extinguishing media	: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### 5.2. Specific hazards arising from the chemical

Fire hazard	: When in combustion releases flammable vapors and gases, large amounts of heat, dense black smoke and toxic gases.
Explosion hazard	: Combustible product. Avoid creating or spreading dust.
Reactivity in case of fire	: The product is non-reactive under normal conditions of use, storage and transport.

### 5.3. Special protective actions for fire-fighters

Precautionary measures fire	: Keep container tightly closed and away from heat, sparks and flame.
Firefighting instructions	: Fight fire with normal precautions from a reasonable distance. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Use self-contained breathing apparatus and chemically protective clothing. Wear fire/flame resistant/retardant clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: May be harmful to aquatic organisms, to flora, to soil organisms. Clean up any spills as soon as possible, using an absorbent material to collect it. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.
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#### 6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Evacuate area. Only qualified personnel equipped with suitable protective equipment may intervene. Notify fire brigade and environmental authorities.
Measures in case of dust release	: Put yourself on the side of the wind. Close nearby windows and doors. Stop engines and do not smoke. Avoid open flames and sparks. Use devices and lamps for explosive atmospheres.

#### 6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Evacuate unnecessary personnel. Stop leak if safe to do so.

### 6.2. Environmental precautions

Prevent liquid from entering sewers, watercourses, underground or low areas. Harmful to aquatic life with long lasting effects. Do not allow product to spread into the environment.

### 6.3. Methods and materials for containment and cleaning up

For containment	: Stop leak without risks if possible. Contain released product, pump into suitable containers. It is recommended to install a fire alarm and leak detection system in the storage and use areas of the product.
Methods for cleaning up	: Take up mechanically (sweeping, shovelling) and collect in suitable and labelled containers and dispose according to local legislation.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Keep only in original container. Do not handle until all safety precautions have been read and understood.
- Hygiene measures : Always wash hands after handling the product. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Provide local exhaust or general room ventilation. All equipment used when handling the product must be grounded. Store in tightly closed, leak-proof containers.
- Storage conditions : Store in a closed container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from moisture. Store in a well-ventilated place. Keep cool.
- Storage area : Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.
- Incompatible products : Strong oxidizing agents. Aromatic hydrocarbons derived from benzene.
- Packaging materials : Store always product in container of same material as original container.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

N-pentane (109-66-0)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (ppm)	1000 ppm
Isopentane (78-78-4)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (ppm)	1000 ppm
Carbon black (Cn) (1333-86-4)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Carbon black
ACGIH TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (Inhalable fraction)
Remark (ACGIH)	TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2020

#### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Measure concentrations regularly, and at the time of any change occurring in conditions likely to have consequences on workers exposure.
- Environmental exposure controls : Do not exceed the occupational exposure limits (OEL).

#### 8.3. Individual protection measures, such as personal protective equipment (PPE)

- Hand protection : Protective gloves
- Eye protection : Chemical goggles or face shield
- Skin and body protection : Wear suitable protective clothing. Wear safety footwear
- Respiratory protection : Wear appropriate mask. An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits

#### 8.4. Exposure limit values for the other components

No additional information available

### SECTION 9: Physical and chemical properties

#### 9.1. Basic physical and chemical properties

- Physical state : Solid
- Appearance : Grains
- Colour : Black
- Odour : Odourless
- Odour threshold : Not available
- Melting point :  $\geq 100$  °C

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Freezing point	: Not available
Boiling point	: Not available
Flammability (solid, gas)	: Not available
Explosive limits	: Not applicable
Lower explosive limit (LEL)	: Not applicable
Upper explosive limit (UEL)	: Not applicable
Flash point	: 285 °C
Auto-ignition temperature	: 450 °C
Decomposition temperature	: Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematic (calculated value) (40 °C)	: Not applicable
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: 1.06 (water=1)
Relative vapour density at 20 °C	: Not applicable
Solubility	: Insoluble in water. Partially soluble in aromatic hydrocarbons and ketones.
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle specific surface area	: Not available

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Can form explosive mixtures with air.

### 10.4. Conditions to avoid

High temperature. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5. Incompatible materials

Strong oxidizing agents. Aromatic hydrocarbons derived from benzene.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

ST 300N BL	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat	> 5 mg/l
N-pentane (109-66-0)	
LD50 oral rat	> 2000 mg/kg (OECD 401)
LC50 inhalation rat	> 25.3 mg/l air (4 h, OECD 403)

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Isopentane (78-78-4)	
LD50 oral rat	> 5000 mg/kg (OECD 423)
LC50 inhalation rat	> 25.3 mg/l (OECD 403)

Polystyrene (9003-53-6)	
LC50 inhalation rat	120 mg/kg

Carbon black (1333-86-4)	
LD50 oral rat	> 10000 mg/kg
LD50 dermal rabbit	> 3000 mg/kg
LC50 inhalation rat	> 4,6 mg/l air

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Harmful to aquatic life.

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

Classification procedure (Hazardous to the aquatic environment, long-term (chronic)) : Calculation method

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EC50 other aquatic organisms 1	100 mg/l (sheepshead minnow)

N-pentane (109-66-0)	
LC50 fish 1	4.26 mg/l (OECD 203, 96 h, Oncorhynchus mykiss)
EC50 Daphnia 1	2.7 mg/l (48 h, Daphnia magna)
ErC50 (algae)	10.7 mg/l (OECD 201, 72 h, Scenedesmus sp.)

Isopentane (78-78-4)	
LC50 fish 1	4.26 mg/l (OECD 203, 96 h, Oncorhynchus mykiss)
EC50 Daphnia 1	2.3 mg/l (OECD 202, 48 h, Daphnia magna)
ErC50 (algae)	10.7 mg/l (OECD 201, 72 h, Selenastrum capricornutum)

Carbon black (1333-86-4)	
LC50 fish 1	1000 mg/l (96 h, Brachydanio rerio. OECD Guideline 203)
EC50 Daphnia 1	> 5600 mg/l (Daphnia magna)
NOEC (acute)	3200 mg/l (24h, Daphnia magna)

### 12.2. Persistence and degradability

N-pentane (109-66-0)	
Persistence and degradability	Readily biodegradable in water.

Isopentane (78-78-4)	
Persistence and degradability	Readily biodegradable in water.

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ThOD	3.55 g O <sub>2</sub> /g substance
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### Carbon black (1333-86-4)

Persistence and degradability	Insoluble in water.
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### 12.3. Bioaccumulative potential

#### N-pentane (109-66-0)

BCF fish 1	171 (Pimephales promelas, QSAR)
Partition coefficient n-octanol/water (Log Kow)	3.45 (25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

#### Isopentane (78-78-4)

BCF fish 1	171 (Pimephales promelas)
Partition coefficient n-octanol/water (Log Kow)	4 (OCDE 117, 25 °C)
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).

### 12.4. Mobility in soil

#### N-pentane (109-66-0)

Surface tension	0.013 N/m (25 °C)
Partition coefficient n-octanol/water (Log Koc)	2.9

#### Isopentane (78-78-4)

Surface tension	0.01549 N/m (25 °C, 100 vol %)
Partition coefficient n-octanol/water (Log Koc)	2.9
Ecology - soil	Low potential for adsorption in soil.

### 12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods	: Must follow special treatment according to local regulation.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

## SECTION 14: Transport information

In accordance with IMDG / IATA / UN RTDG

### 14.1. UN number

UN-No. (UN RTDG)	: 2211
UN-No. (IMDG)	: 2211
UN-No. (IATA)	: 2211

### 14.2. UN Proper Shipping Name

Proper Shipping Name (UN RTDG)	: Polymeric beads, expandable
Proper Shipping Name (IMDG)	: Polymeric beads, expandable
Proper Shipping Name (IATA)	: Polymeric beads, expandable

### 14.3. Transport hazard class(es)

#### UN RTDG

Transport hazard class(es) (UN RTDG)	: 9
Danger labels (UN RTDG)	: 9

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### IMDG

Transport hazard class(es) (IMDG) : 9  
 Danger labels (IMDG) : 9



### IATA

Transport hazard class(es) (IATA) : 9  
 Danger labels (IATA) : 9



### 14.4. Packing group

Packing group (UN RTDG) : III  
 Packing group (IMDG) : III  
 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

Transport regulations (UN) : Not subject  
 Special provisions (UN RTDG) : 207  
 Limited quantities (UN RTDG) : 5 kg  
 Excepted quantities (UN RTDG) : E1  
 Packing instruction (UN RTDG) : P002, IBC08  
 Special packing provisions (UN RTDG) : PP14, B3, B6  
 Portable tank and bulk container special instructions (UN RTDG) : T1  
 Portable tank and bulk container special provisions (UN RTDG) : TP33

#### - IMDG

Transport regulations (IMDG) : Not subject  
 Special provisions (IMDG) : 382, 965  
 Packing instructions (IMDG) : P002  
 Special packing provisions (IMDG) : PP14  
 IBC packing instructions (IMDG) : IBC08  
 IBC special provisions (IMDG) : B3, B6  
 Tank instructions (IMDG) : T1  
 Tank special provisions (IMDG) : TP33  
 EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE  
 EmS-No. (Spillage) : S-I - SPILLAGE SCHEDULE India - FLAMMABLE SOLIDS (REPACKING POSSIBLE)  
 Stowage category (IMDG) : E  
 Properties and observations (IMDG) : A moulding material in bead or granular form consisting predominantly of polystyrene, poly(methyl methacrylate) or other polymeric material and containing 5% to 8% of a volatile hydrocarbon which is predominantly pentane. During storage a small proportion of this pentane is released to the atmosphere; this proportion increases at elevated temperatures.

#### - IATA

Transport regulations (IATA) : Not subject  
 PCA Excepted quantities (IATA) : E1  
 PCA Limited quantities (IATA) : Forbidden  
 PCA limited quantity max net quantity (IATA) : Forbidden  
 PCA packing instructions (IATA) : 957  
 PCA max net quantity (IATA) : 100kg  
 CAO packing instructions (IATA) : 957

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CAO max net quantity (IATA) : 200kg  
Special provisions (IATA) : A204  
ERG code (IATA) : 9L

### 14.7. Transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations specific for the product in question

Regulatory reference : IMDG code - International Maritime Dangerous Goods.  
IATA - International Air Transport Association.  
GHS - Globally Harmonized System of Classification and Labelling of Chemicals.  
UN - Recommendations on the Transport of Dangerous Goods.

## SECTION 16: Other information

Issue date : 30/07/2020  
Revision date : 30/07/2020

Abbreviations and acronyms : OEL - Occupational exposure limit  
ACGIH - American Conference of Government Industrial Hygienists, United States  
TWA - Time Weighted average  
GHS - Globally Harmonized System of Classification and Labeling of Chemicals  
CAS - Chemical Abstract Service  
BCF - Bioconcentration factor  
ErC50 - Concentration with 50 % impact on growth rate  
EC50 - Median effective concentration  
LC50 - Median lethal concentration  
LD50 - Median lethal dose

Full text of H-statements:	
H224	Extremely flammable liquid and vapour
H225	Highly flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H336	May cause drowsiness or dizziness
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

### 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.*