



Safety Data Sheet

Polyethylene foam

SECTION 1: Identification

1.1 Product identifier

Product name Polyethylene foam*

*This SDS pertains only to natural and/or pigmented products formulated without anti-static and/or fire-retardant additives, adhesive components, or other specialty additives.

1.2 Other means of identification

Not applicable

1.3 Recommended use of the chemical and restrictions on use

Recommended use: Packaging.

1.4 Supplier's details

Name Ivex Protective Packaging
Address 1 456 S. Stolle Ave.
Sidney, OH 45365
USA

Address 2 3300 route Transcanadienne,
Pointe-Claire, QC, H9R 1B1
Canada

Address 3 Ave. Los Cabos #8650 Fracc. La Joya Parque Ind. Nórdika
Tijuana, B.C. 22640
Mexico

Address 4 Carretera Guadalajara-Chapala km 24.5. Edificio 1-B Tlajomulco de Zúñiga,
Jalisco C.P. 45670
Mexico

Address 5 Industrial Chihuahua, 11376 Oscar Wilde St, Complejo, Chihuahua,
Chihuahua C.P. 31109
Mexico

Telephone 937-498-9298

1.5 Emergency phone number(s)

937-498-9298

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification

Not classified.

2.2 GHS label elements, including precautionary statements

Not applicable.

2.3 Hazards not otherwise classified (HNOC)

Residual amounts of extremely flammable hydrocarbon gas in this product may accumulate forming hazardous concentrations in confined or enclosed areas. It may form explosive mixtures with air. The rate of flammable gas release increases at elevated temperatures and during different fabricating operations which cut large numbers of interior foam cells, such as grinding, slitting, cutting, etc.

SECTION 3: Composition/information on ingredients

Component	Concentration
Polyethylene (CAS no.: 9002-88-4)	≥80 % (weight)
Hydrocarbon gases* such as isobutane (CAS no.: 75-28-5) and n-butane (CAS no.: 106-97-8)	≤5 % (weight)
Glycerol stearate (CAS no.: 67701-33-1)	≤5 % (weight)
Color concentrate	≤5 % (weight)
Silica (CAS no.: 68855-54-9) /Talc (CAS no.: 14807-96-6) mixture	≤5 % (weight)
Chemical Foaming Agent	≤5 % (weight)

*Hydrocarbon gas is used as a "blowing agent" to expand solid plastic into polyethylene foam during manufacturing. Residual amounts of this gas may be present in the product.

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled	Move to fresh air and promote deep breathing. Get medical attention if effects persist. If thermal decomposition products are inhaled: Move an exposed person to fresh air. Keep warm and at rest. If respiration stops or shows signs of failing, apply artificial respiration. Get medical attention.
In case of skin contact	No first aid measures are normally required. Wash with plenty of soap and water. Get medical attention if irritation or rash develops or persists.
In case of eye contact	Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical attention.
If swallowed	Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

If inhaled	Product particles in case of accidental penetration of the airways may cause mechanical irritation of respiratory tract, cough. Inhalation of decomposition products may be harmful and cause respiratory irritation.
In case of skin contact	No adverse effects are normally expected.
In case of eye contact	Product particles may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
If swallowed	May cause gastrointestinal blockage and other adverse effects.

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

Treat symptomatically and supportively.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. If material is molten, do not apply direct water stream.

5.2 Specific hazards arising from the chemical

Residual amounts of extremely flammable hydrocarbon gas in this product may accumulate forming hazardous concentrations in confined or enclosed areas. The rate of flammable gas accumulation increases at elevated temperatures. It may form explosive mixtures with air.

The product is combustible. Mechanical cutting, grinding or sawing can cause formation of dusts. Finely divided dusts can form explosive mixtures in air. Large dust clouds from the product have the potential to ignite explosively. Hazardous combustion products: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary. Fight fire from a safe distance or a protected location. Approach fire from upwind to avoid hazardous vapours or gases.

Further information

No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection recommended in Section 8. Avoid formation of suspended dust or powder. Keep all ignition sources away.

6.2 Environmental precautions

Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Recover spilled material if possible. Keep in suitable, closed containers for disposal. Dispose according to applicable Federal, State and local laws and regulations.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practices. Residual amounts of extremely flammable hydrocarbon gas in this product may accumulate forming hazardous concentrations in confined or enclosed areas. The rate of flammable gas release increases at elevated temperatures and during different fabricating operations which cut large numbers of interior foam cells, such as grinding, slitting, cutting, etc. It may form explosive mixtures with air. Ensure adequate ventilation. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. Monitoring systems may be necessary to insure no accumulation of flammable hydrocarbon gas. Wash hands with soap and water after handling. Do not ingest or inhale combustion or decomposition products. Minimize dust generation and accumulation.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a well-ventilated place. Keep away from direct sunlight, heat and sources of ignition. Do not store polyethylene foam in confined areas or sealed-off compartments.

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Particulates Not Otherwise Regulated (PNOR)

PEL-TWA: 5 mg/m³ (*15 mppcf) [respirable fraction], 15 mg/m³ (*50 mppcf) [total dust] (OSHA)

PEL-TWA: 5 mg/m³ (respirable fraction), 10 mg/m³ (total dust) (Cal/OSHA)

Isobutane (CAS no.: 75-28-5)

REL-TWA: 800 ppm (1900 mg/m³) (NIOSH)

TLV-STEL: 1000 ppm (ACGIH)

n-Butane (CAS no.: 106-97-8)

REL-TWA: 800 ppm (1900 mg/m³) (NIOSH)

TLV-STEL: 1000 ppm (ACGIH)

Talc (CAS no.: 14807-96-6)

PEL-TWA: 20 mppcf (OSHA)

REL-TWA: 2 mg/m³ (NIOSH)

TLV-TWA: 2 mg/m³ (ACGIH)

PEL-TWA: 2 mg/m³ (Cal/OSHA)

Amorphous Silica (CAS no.: 68855-54-9)

PEL-TWA: 20 mppcf or (80 mg/m³)/(%SiO₂) (OSHA)

REL-TWA: 6 mg/m³ (NIOSH)

PEL-TWA: 6 mg/m³ (total dust), 3 mg/m³ (respirable dust), 6 mg/m³ (precipitated and gel) (Cal/OSHA)

8.2 Appropriate engineering controls

Provide general ventilation or local exhaust ventilation to minimize exposure to dust and maintain airborne concentrations below OSHA PELs or other specified exposure limits.

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

Eye/face protection

Not required under normal use conditions. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Not required under normal use conditions. Consistent with general hygienic practice for any material, skin contact should be minimized. Use gloves to protect from mechanical injury. Selection of gloves will depend on the task.

Body protection

The type of protective equipment must be selected according to the concentration and amount of the dangerous substances at the specific workplace.

Respiratory protection

If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator with organic vapor/acid gas cartridge and particulate filter, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.

Thermal hazards

No data available.

Environmental exposure controls

Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Solid foam.
Odor	Negligible odor.
Odor threshold	No data available.
pH	Not applicable.
Melting point/freezing point	204 °F
Initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	Not applicable.
Relative density	No data available.
Density	No data available.
Solubility(ies)	Not soluble in water.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Ignition temperature	No data available.
Decomposition temperature	482 °F
Viscosity	Not applicable.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

Other safety information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Non-reactive under normal use conditions.

10.2 Chemical stability

Stable under normal storage conditions.

10.3 Possibility of hazardous reactions

Stable under normal conditions.

10.4 Conditions to avoid

Do not overheat, avoid thermal decomposition. Avoid temperatures above 70 °C (158 °F). Keep away from direct sunlight, heat and sources of ignition. Do not store foam in confined areas or sealed-off compartments.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide, and other hazardous gases/fumes.

SECTION 11: Toxicological information

Information on toxicological effects

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation.

If inhaled	Product particles in case of accidental penetration of the airways may cause mechanical irritation of respiratory tract, cough. Inhalation of decomposition products may be harmful and cause respiratory irritation.
In case of skin contact	No adverse effects are normally expected.
In case of eye contact	Product particles may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
If swallowed	May cause gastrointestinal blockage and other adverse effects.

Acute toxicity

No data available.

Skin corrosion/irritation

No data available.

Serious eye damage/irritation

No data available.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

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, IARC, or OSHA.

Reproductive toxicity

No data available.

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

No data available.

SECTION 12: Ecological information

Toxicity

No data available on product.

Persistence and degradability

No data available on product.

Bioaccumulative potential

No data available on product.

Mobility in soil

No data available on product.

Results of PBT and vPvB assessment

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

Other adverse effects

No data available on product.

SECTION 13: Disposal considerations

Disposal of the product

Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

Disposal of contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

Transport polyethylene foam using well-ventilated vehicles to ensure that a flammable concentration of hydrocarbon gas does not develop inside the vehicle.

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

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

SARA 302 Components

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

SARA 311/312 Hazards

No SARA hazards.

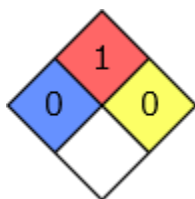
SARA 313 Components

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.

HMIS Rating

Polyethylene foam	
HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

Date of issue: March 20, 2023.

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. All materials may present unknown hazards and should be used with caution. In no event shall we be held liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if we have been advised of the possibility of such damages.