

**Section 1****Identification of the substance/preparation and the company/undertaking****1.1 Product identifier**

Material name	Sundolitt XPS
Chemical name	Extruded polystyrene (XPS)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Thermal insulation for buildings, load bearing insulation for construction applications and frost heave protection.
Uses advised against	None known

1.3 Details of the supplier of the safety data sheet

Manufacturer	Sunde as v/ Vidar Bøstrand Borgundfjordveien 118 6022 Ålesund Norway
Phone	+47 70 17 70 00
e-mail	norway@sundolitt.com
Web page	www.sundolitt.no
Responsible for the Safety Data Sheet	Lars Valentin e-mail: lars.valentin@sundolitt.com

1.4 Emergency telephone number

Emergency phone	+47 22 59 13 00
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**Section 2****Hazards identification****2.1 Classification of the substance or mixture**

Regulation (EC) no 1272/2008	Not classified
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2.2 Label elements

hazard pictogram(s)	None	
signal word(s)	None	
hazard statement(s)	None	
precautionary statement(s)	None	

2.3 Other hazards

Other info	
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**Section 3****Composition/information on ingredients****3.1 Substances**

Not applicable

3.2 Mixtures

Formal name	Extruded Polystyrene foam (CAS no. 9003-53-6)
Synonym	

Chemical name	CAS no.	EC no.	Hazard pictogram(s)	Hazard statement(s)	Conc. W/W%
Polystyrene	9003-53-6	929-203-0	-	-	>98%

**Section 4****First aid measures****4.1 Description of first aid measures**

Inhalation	No known irritant.
Skin contact	Not an irritant
Eye contact	Not generally an irritant. If dust in eyes, rinse with clean water
Ingestion	Not toxic if swallowed. However, always consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation	
Skin contact	
Eye contact	
Ingestion	

4.3 Indication of any immediate medical attention and special treatment needed

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**Section 5****Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media	Foam, water spray, powder, or carbon dioxide. For smaller fires use powder, carbon dioxide, sand or earth.
Unsuitable extinguishing media	

5.2 Special hazards arising from the substance or mixture

Not classified as flammable but is potentially combustible at elevated temperatures. Combustion gases may include carbon dioxide (CO₂), small amounts of carbon monoxide (CO) and soot. Poor ventilation can increase the possibility of carbon monoxide formation. Avoid inhaling smoke from any fire.

5.3 Advice for firefighters

Use full protective clothing and breathing apparatus.

Section 6**Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Avoid Smoking or naked flames. Take precautionary measures against electrostatic discharges.

6.2 Environmental precautions

Avoid the product or parts to spread into the environment.

6.3 Methods and material for containment and cleaning up

Keep the product free from contamination for reuse or recycling. See section 13 for recycling, waste and disposal.



6.4 Reference to other sections

See also section 8 and 13

Section 7

Handling and storage

7.1 Precautions for safe handling

Avoid inhalation of fumes or vapors from heated product. Keep away from sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities

Keep product cool and away from prolonged direct sunlight. Sundolitt XPS is practically unaffected by water absorption, immersion and frost/thaw processes.

7.3 Specific end use(s)

Thermal insulation for buildings, load bearing insulation for construction applications and frost heave protection.



Section 8

Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Keep away from sources of ignition. If cut to size, clean up any parts to avoid this spreading to the environment.

8.2.2 Individual protection measures, such as personal protective equipment

Eye/face protection	When handling creates dust, use goggles
Skin protection	No special requirements.
Respiratory protection	When handling or cutting material, wear a dust mask with air extraction
Thermal hazards	

8.2.3 Environmental exposure controls

Section 9

Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Rigid Polystyrene Foam
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Colour	Orange
Odour	None
Odour threshold (ppm)	
pH	
Melting point/freezing point	
Initial boiling point and boiling range	
Flashpoint	
Evaporation rate	
Flammability	
Upper/lower flammability or explosive limits	
Vapour pressure	
Vapour density	
Relative density	
Solubility(ies)	Soluble in some organic solvent, such as halogenated hydrocarbons and ketones. Product generally inert. Insoluble in water.
Partition coefficient: n-octanol/water	
Auto-ignition temperature	Approx. 420°C
Decomposition temperature	
Viscosity	
Explosive properties	
Oxidising properties	



9.2 Other information

Density	25-60 kg/m ³
Bulk density	
Softening point	Approx. 70°C

Section 10

Stability and reactivity

10.1 Reactivity

None

10.2 Chemical stability

Stable at normal handling. Softens at temperatures above 70° C. Soluble in some organic solvents, care should be taken in choice of adhesives used.

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

Heat, flames and sparks. Avoid exposure to strong sunlight for extended periods. Avoid contact with organic solvents.

10.5 Incompatible materials

10.6 Hazardous decomposition products

**Section 11****Toxicological information****11.1 Information on toxicological effects**

Acute toxicity	No sensitivity effects are known.
Skin corrosion/irritation	No skin irritants are known.
Serious eye damage/irritation	No eye irritants are known.
Respiratory or skin sensitisation	
Germ cell mutagenicity	
Carcinogenicity	
Reproductive toxicity	
STOT-single exposure	
STOT-repeated exposure	
Aspiration hazard	

11.2 Information on other hazards**11.2.1 Endocrine disrupting properties**

Product does not contain any known substances identified with having endocrine disrupting properties.

11.2.2 Other information

No other adverse effects not described elsewhere are known if the product is handled properly.

**Section 12****Ecological information**

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12.1 Toxicity

Aquatic invertebrates	
Algae/aquatic plants	

12.2 Persistence and degradability

Polystyrene is not inherently biodegradable

12.3 Bioaccumulative potential

Due to the polymeric structure the product is not bioaccumulative

12.4 Mobility in soil

The product is insoluble in water.

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPBT

12.6 Endocrine disrupting properties

Product does not contain any known substances identified with having endocrine disrupting properties.

12.7 Other adverse effects

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**Section 13****Disposal considerations****13.1 Waste treatment methods**

The product is 100% recyclable.

The following conditions are recommended. Clean or uncontaminated the material can be recycled for material recovery. Contaminated product is recommended for chemical recycling or as a fuel source for energy recovery.

Section 14**Transport information****14.1 UN number**

ADR	Not classified
RID	Not classified
IMDG	Not classified

14.2 UN proper shipping name

ADR	
RID	
IMDG	

14.3 Transport hazard class(es)

ADR	
RID	
IMDG	



14.4 Packing group

ADR	
RID	
IMDG	

14.5 Environmental hazards

ADR	
RID	
IMDG	

14.6 Special precautions for user

ADR	
RID	
IMDG	

14.7 Maritime transport in bulk according to IMO instruments

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Section 15

Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Not classified as a health or environmental hazard under current rules on chemical products. Products marked with recycling symbols according to international recommendations.



15.2 Chemical safety assessment

Chemical safety assessment is not required for this product.

Section 16
Other information

Changes since last revision

New layout.

List of hazard statements not written in full in section 2 and 3.

hazard statement(s)		



Safety data sheet

Hazard pictograms not shown in section 2 and 3.

Hazard pictogram(s)		

Advice on training

It should be given training in safe handling and use of the product, based on the information in this document and the specific local conditions/regulations where the product is handled and used.

Disclaimer

This information is based on our current knowledge and experience. The Safety Data Sheet describes the product only with regard to health safety and environmental requirements. It should not be construed as a guarantee for specific product features.