Perstorp
WINNING FORMULAS

Safety data sheet

Issue Date 03-Nov-2016 **Revision Date** 03-Nov-2016 **Version** 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name

Polyol 3611

Chemical Name
Polyalcohol, alkoxylated

CAS No
XXX-XX-X

Other means of identification

Pure substance/mixture Substance

Recommended use of the chemical and restrictions on use

Application Manufacture of substances. Industrial manufacturing. Distribution and storage. Formulations. Use: in flexible foam, in rigid foam, in coatings, in adhesives, in sealants, in elastomers, in polyamide, in polyimide, in synthetic fibres, in foundry, in thermoplastic polyurethane, in composite materials based on wood, minerals or natural fibres, in other composite materials

Uses advised against Not identified.

Details of the supplier of the safety data sheet

Manufacturer Address

Perstorp Specialty Chemicals AB
SE-284 80 Perstorp, Sweden
Tel. +46 435 380 00
www.perstorp.com

Supplier Address

Perstorp Polyols, Inc.
600 Matzinger Road
Toledo, Ohio 43612
Tel: 419-729-5448/ 800-537-0280
www.perstorp.com

E-mail address productinfo@perstorp.com

Emergency telephone number

Canada (+)1 866 519 4752 (contract no: 334101)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS) and Hazardous Products Regulations (HPR).

Label elements

Symbols/Pictograms
Not applicable

Signal word
Not applicable

Hazard statements
Not applicable

Precautionary statements
Not applicable

Other hazards

Note the risk of burn injuries if the product is handled heated.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No	Weight-%
Polyalcohol, alkoxylated	XXX-XX-X	90-100

4. FIRST AID MEASURES

Description of first aid measures

Inhalation First aid measures not required, but get fresh air for personal comfort.

Skin contact After contact with the molten/hot product, cool rapidly with cold water.

Eye contact After contact with the molten/hot product, cool rapidly with cold water.

Ingestion If a large quantity has been ingested or if you feel unwell, get medical advice/attention.

Most important symptoms and effects, both acute and delayed
None known.

Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
All types of extinguishing media are suitable. Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable extinguishing media
High volume water jet.

Specific hazards arising from the chemical
Thermal decomposition can lead to release of irritating and toxic gases and vapours; Carbon monoxide (CO). Carbon dioxide (CO2).

Protective equipment and precautions for firefighters
In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Personal precautions
Wear safety glasses, gloves, protective clothing and rubber boots for hygienic reasons.

Environmental precautions
Do not allow into any sewer, on the ground or into any body of water. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up
Methods for containment
Prevent further leakage or spillage if safe to do so

Small spill	Cover liquid spill with sand, earth or other noncombustible absorbent material
Large spill	Pump up the product into a spare container suitably labelled.

Methods for cleaning up
Take up mechanically, placing in appropriate containers for disposal.

Reference to other sections
See Section 7,8,13 for more information.

7. HANDLING AND STORAGE

Precautions for safe handling

Wear personal protective equipment according to section 8 if risk of exposure.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities
Keep tightly closed in a dry and cool place. Avoid contact with water or humidity. The product is; Hygroscopic.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Users are advised to consider national Occupational Exposure Limits or other equivalent values. (if existing).

Appropriate engineering controls
None under normal use conditions.

Individual protection measures, such as personal protective equipment

Eye/face protection	If handled where risk of splashes may occur, use safety goggles.
Hand Protection	Protective gloves not really required. However, we recommend using protective gloves made of rubber. Butyl rubber. Chloroprene rubber, CR. Nitrile rubber, NBR.
Skin and body protection	Normal work clothes for the chemical industry (long legs and sleeves).
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance
liquid
colourless

Odour Slight
Odour threshold No information available

Property	Value	Remarks • Method
pH		Not determined
Melting point / freezing point	<-20 °C	
Boiling point / boiling range	-	Decomposes, OECD Test No. 103: Boiling Point
Flash point	>200 °C	Regulation (EC) No. 440/2008, Annex, A.9
Evaporation rate		No information available
Flammability (solid, gas)		Not applicable
Explosive limits		
Upper explosive limits		Not applicable
Lower explosive limits		Not applicable
Vapour pressure	0.000000264 kPa	(@20°C; OECD 104)
Vapour density		No information available
Relative density		No information available
Water solubility	28 g/L	@ 20 °C OECD Test No. 105: Water Solubility
Solubility(ies)		No information available
Partition coefficient	1.3	log POW (@25°C) OECD Test No. 117: Partition Coefficient (n-octanol/water), HPLC Method
Autoignition temperature	370 °C	Regulation (EC) No. 440/2008, Annex, A.15
Decomposition temperature	206 °C	
Kinematic viscosity		No information available
Dynamic viscosity	mPa s	@ 23 °C
Explosive properties	Not explosive.	
Oxidising properties	Not oxidising.	
Density	1.12 g/cm^3	@ 20 °C, OECD Test No. 109: Density of Liquids and Solids
Bulk density		No information available

Other Information
No information available

10. STABILITY AND REACTIVITY

Reactivity
There exists no specific test data for this product. For further information, see the subsequent subsections of this chapter.

Chemical stability
The product is stable at normal conditions.

Possibility of Hazardous Reactions
None known.

Conditions to avoid
None known.

Incompatible materials
None known.

Hazardous decomposition products
Thermal decomposition can lead to release of irritating and toxic gases and vapours; Carbon monoxide (CO). Carbon dioxide (CO2).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Dermal. Inhalation.

Symptoms related to the physical, chemical and toxicological characteristics
None known.

Numerical measures of toxicity

Acute toxicity
Product does not present an acute toxicity hazard based on known or supplied information.

Polyalcohol, alkoxylated (XXX-XX-X)				
Method	Species	Exposure route	Effective dose	Remarks
OECD Test No. 423: Acute Oral toxicity - Acute Toxic Class Method	Rat	Oral	>2000	LD0 mg/kg
OECD Test No. 401: Acute Oral Toxicity	Rat	Oral	>5000	LD0 mg/kg
OECD Test No. 402: Acute Dermal Toxicity	Rat	Dermal	>2000	LD0 mg/kg

Skin corrosion/irritation
Non-irritating to the skin.

Polyalcohol, alkoxylated (XXX-XX-X)			
Method	Species	Exposure route	Results:
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit	Dermal	Non-irritating to the skin

Serious eye damage/eye irritation
Slightly irritating.

Polyalcohol, alkoxylated (XXX-XX-X)			
Method	Species	Exposure route	Results:
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	Eye	Slightly irritating. No classification according to GHS criteria.

Respiratory or skin sensitisation
Not a skin sensitiser.

Polyalcohol, alkoxylated (XXX-XX-X)			
Method	Species	Exposure route	Results:
OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay	Mouse	Skin	Not sensitising.

Germ cell mutagenicity
The product is not considered to be mutagenic.

Polyalcohol, alkoxylated (XXX-XX-X)		
Method	Species	Results:
OECD Test No. 471: Bacterial Reverse Mutation Test	in vitro	Negative
OECD Test No. 473: In vitro Mammalian Chromosome Aberration Test	in vitro	Negative
OECD Test No. 476: In vitro Mammalian Cell Gene Mutation Test	in vitro	Negative

Carcinogenicity
No information available.

Reproductive toxicity
No impairment of fertility has been observed. No embryotoxic or teratogenic effects have been observed.

Polyalcohol, alkoxylated (XXX-XX-X)				
Method	Species	Exposure route	Effective dose	Remarks
OECD Test No. 421: Reproduction/Developmental Toxicity Screening Test	Rat	Oral	1000	(P) NOAEL mg/kg bw/d No impairment of fertility has been observed.
OECD Test No. 421: Reproduction/Developmental Toxicity Screening Test	Rat	Oral	1000	(F1) NOAEL mg/kg bw/d No embryotoxic or teratogenic effects have been observed.

STOT - single exposure No known effect

STOT - repeated exposure No known effect

Polyalcohol, alkoxylated (XXX-XX-X)				
Method	Species	Exposure route	Effective dose	Remarks
OECD Test No. 407: Repeated Dose 28-day Oral Toxicity Study in Rodents	Rat	Oral	1000	NOAEL mg/kg bw/d No toxicity

Aspiration hazard
No hazard identified.

12. ECOLOGICAL INFORMATION

Toxicity
Low toxicity to aquatic organisms.

Polyalcohol, alkoxylated (XXX-XX-X)					
Method	Species	Exposure route	Effective dose	Exposure time	Remarks
OECD Test No. 203: Fish, Acute Toxicity Test	Brachydanio rerio	Freshwater	>1000	96h	LC0 mg/l
OECD Test No. 202: Daphnia sp. Acute Immobilization Test	Daphnia magna	Freshwater	>10000	48h	EC50 (effective concentration) mg/l
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Selenastrum capricornutum	Freshwater	>1000	72h	EC50 (effective concentration) mg/l

OECD Test No. 209: Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)	Bacteria toxicity	Freshwater	>1000	3h	EC50 (effective concentration) mg/l

Persistence and degradability
Not readily biodegradable.

Polyalcohol, alkoxylated (XXX-XX-X)			
Method	Value	Exposure time	Results:
OECD Test No. 301A: Ready Biodegradability: DOC Die-Away Test (TG 301 A)	2-11%	28d	Not readily biodegradable
OECD Test No. 302C: Inherent Biodegradability: Modified MITI Test (II)	34%	27d	Not readily biodegradable

Bioaccumulative potential
Not likely to bioaccumulate.

Chemical Name	**Partition coefficient**	**Bioconcentration factor (BCF)**
Polyalcohol, alkoxylated	1.3	

Mobility in soil
The substance is not expected to adsorb to a high degree to suspended solids and sediment based upon the log Pow.

Other adverse effects
None known.

13. DISPOSAL CONSIDERATIONS

Disposal methods
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging
Thoroughly emptied and clean packaging may be recycled.

14. TRANSPORT INFORMATION

TDG Road transport Not regulated

RID Rail transport Not regulated

IMDG Sea transport Not regulated

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

IATA Air transport Not regulated

15. REGULATORY INFORMATION

International Regulations
Not applicable.

National regulations

Canada
Not applicable.

WHMIS Hazard Class
Non-controlled

16. OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Issue Date	03-Nov-2016
Revision Date	03-Nov-2016
Revision Note	No information available

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet