1. IDENTIFICATION

Product identifier

Product Name

Capa™ 2077A

Other means of identification

Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Application Paint, Coatings, Adhesives, Binder

Uses advised against Not identified.

Details of the supplier of the safety data sheet

Manufacturer Address

Perstorp UK Ltd
Baronet Road
Warrington
Cheshire WA4 6HA
United Kingdom
Tel. +44 (0) 1925 591111
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

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

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Label elements

Symbols/Pictograms
Not applicable

Signal word
None

Hazard statements
Not applicable

Precautionary Statements
Not applicable

Supplementary hazard information
Not applicable

Hazards not otherwise classified (HNOC)

Other hazards
Harmful to aquatic life

Unknown Acute Toxicity
99 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance
Not applicable

Mixture

Chemical Name	CAS No	Weight-%
2-Oxepanone polymer with 1,6 hexane diol	36609-29-7	>98

4. FIRST AID MEASURES

Description of first aid measures

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

Skin contact First aid measures not required, but wash exposed skin with soap and water for hygienic reasons.

Eye contact First aid measures not required, but rinse opened eye under running water for personal comfort to avoid mechanical irritation.

Ingestion Rinse mouth with water. If a large quantity has been ingested or you feel unwell, get medical advice/attention.

Most important symptoms and effects, both acute and delayed
No information available.

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

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Water spray (fog), Carbon dioxide (CO2). Foam, Extinguishing powder.

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 vapors. Carbon monoxide (CO). Monomer (2-Oxepanone, Hexan-6-Olide, CAS 502-44-3).

Protective equipment and precautions for firefighters
Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

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 flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up
Methods for containment
Absorb non-recoverable liquid with inert absorbent material. Pick up and transfer to properly labeled containers.
Methods for cleaning up
Clean contaminated surface thoroughly: Water (with cleaning agent).

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. Keep away from heat. Protect from direct sunlight.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash hands before breaks and after work. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Keep/store only in original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Appropriate engineering controls
Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand Protection	Protective gloves not really required. However, we recommend using protective gloves made of rubber. PVC gloves, Chloroprene rubber, CR, Butyl rubber.
Skin and body protection	Normal work clothes for the chemical industry (long-legged pants and sleeves).
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties
Appearance
paste
white

Odor Odorless
Odor threshold Not applicable

Property	**Value**	**Remarks • Method**
pH		No information available
Melting point / freezing point	15 °C	No information available
Boiling point / boiling range		No information available
Flash point	275 °C	No information available
Evaporation rate		No information available
Flammability (solid, gas)		Not applicable
Explosive limits		
Upper explosive limits		Not applicable
Lower explosive limits		Not applicable
Vapor pressure		Not determined
Vapor density		No information available
Relative density		No information available
Water solubility	poorly soluble	No information available
Solubility(ies)		No information available
Partition coefficient		Not determined
Autoignition temperature		Not determined
Decomposition temperature	ca 200 °C	No information available
Kinematic viscosity		No information available
Dynamic viscosity	mPa s	@ 60 °C
Explosive properties	Not explosive.	

Oxidizing properties	Not oxidizing.	
Density	1.05 g/cm³	No information available
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 under normal processing

Conditions to avoid
Heat.

Incompatible materials
Avoid contact with acids. Avoid contact with bases.

Hazardous decomposition products
Possible decomposition and release of monomer at temperatures above 200° C.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Oral, Dermal.

Numerical measures of toxicity

ATEmix (oral)	5,007.00 mg/kg
ATEmix (dermal)	8,853.00 mg/kg
ATEmix (inhalation-vapor)	2,100.00 mg/l
Unknown Acute Toxicity	99 % of the mixture consists of ingredient(s) of unknown toxicity

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

2-Oxepanone polymer with 1,6 hexane diol (36609-29-7)				
Method	Species	Exposure route	Effective dose	Remarks
OECD Test No. 401: Acute Oral Toxicity	Rat	Oral	>5000	LD50 (lethal dose) mg/kg read-across from supporting substance (structural analogue)

Skin corrosion/irritation
Non-irritating to the skin.

2-Oxepanone polymer with 1,6 hexane diol (36609-29-7)			
Method	Species	Exposure route	Results:
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit	Dermal	Non-irritating to the skin read-across from supporting substance (structural analogue)

Serious eye damage/eye irritation
Non-irritant.

2-Oxepanone polymer with 1,6 hexane diol (36609-29-7)			
Method	Species	Exposure route	Results:
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	Eye	Non-irritant read-across from supporting substance (structural analogue)

Respiratory or skin sensitization
No sensitising effects known.

2-Oxepanone polymer with 1,6 hexane diol (36609-29-7)			
Method	Species	Exposure route	Results:
OECD Test No. 429: Skin Sensitization: Local Lymph Node Assay	Mouse	Skin	Not a skin sensitizer read-across from supporting substance (structural analogue)

Germ cell mutagenicity
Not mutagenic.

2-Oxepanone polymer with 1,6 hexane diol (36609-29-7)		
Method	Species	Results:
OECD Test No. 471: Bacterial Reverse Mutation Test	Salmonella typhimurium Escherichia coli	Not mutagenic read-across from supporting substance (structural analogue)

Carcinogenicity
No information available.

Reproductive toxicity
No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard
No information available.

12. ECOLOGICAL INFORMATION

Toxicity
Harmful to aquatic life.

0.25% of the mixture consists of components(s) of unknown hazards to the aquatic environment

2-Oxepanone polymer with 1,6 hexane diol (36609-29-7)					
Method	Species	Exposure route	Effective dose	Exposure time	Remarks
OECD Test No. 203: Fish, Acute Toxicity Test	Brachydanio rerio	Freshwater	72	96 h	LC50 (lethal concentration) mg/l read-across from supporting substance (structural analogue)
OECD Test No. 202: Daphnia sp. Acute Immobilization Test	Daphnia magna	Freshwater	290	48 h	EC50 (effective concentration) mg/l read-across from supporting

					substance (structural analogue)
OECD Test No. 201: Freshwater Alga and Cyanobacteria, Growth Inhibition Test	Pseudokirchneriella subcapitata	Freshwater	165	72 h	ErC50 mg/l read-across from supporting substance (structural analogue)
ISO/TC 147/SC 5/WG 1 N 133	Pseudomonas putida		460	16 h	NOEC mg/l read-across from supporting substance (structural analogue)

Persistence and degradability
Readily biodegradable.

2-Oxepanone polymer with 1,6 hexane diol (36609-29-7)			
Method	Value	Exposure time	Results:
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	60%	7 d	Readily biodegradable read-across from supporting substance (structural analogue)
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	84%	28 d	Readily biodegradable read-across from supporting substance (structural analogue)
OECD Test No. 111: Hydrolysis as a Function of pH	t1/2 = 35h(pH=9)	5 d	Readily biodegradable

Bioaccumulative potential
No information available.

Chemical Name	**Partition coefficient**	**Bioconcentration factor (BCF)**
2-Oxepanone polymer with 1,6 hexane diol	2.8	

Mobility in soil
No information available.

Other adverse effects
No information available.

Additional information
Do not allow into any sewer, on the ground or into any body of water.

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. Contaminated packaging materials must be disposed of in the same manner as the product.

14. TRANSPORT INFORMATION

DOT 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

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

International Regulations

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	**Health hazards** 1	**Flammability** 1	**Instability** 0	**Physical and Chemical Properties** Not available
HMIS	**Health hazards** 1	**Flammability** 1	**Physical hazards** 0	**Personal protection** X

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

Not applicable

Issue Date 28-Dec-2016
Revision Date 28-Dec-2016

Revision Note No information available

This safety data sheet complies with the requirements of: OSHA Hazard Communication Standard (29 CFR 1910.1200).

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