

## Safety Data Sheet

Printing date 08/09/2019

Version Number 1.0

Reviewed on 08/09/2019

### 1 Identification

#### Product identifier

Trade name: ***POLARSET PREMIX***

SDS ID Number: 60148

**Relevant identified uses of the substance or mixture, and uses advised against:**  
Specialty construction product. Not intended for other uses.

**Product category** Concrete Admixture

#### Details of the supplier of the safety data sheet

##### Manufacturer/Supplier:

GCP Applied Technologies  
62 Whittemore Avenue  
Cambridge, MA 02140 USA

GCP Canada, Inc.  
294 Clements Road W.  
Ajax, Ontario L1S 3C6 Canada

##### Information department:

Environmental Health & Safety  
USA: +1-617-876-1400 (24 hours)  
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts  
CAN: 1-905-683-8561 (24 hours)  
Email address: msds.gcp@gcpat.com

**Transport Emergency:** Chemtrec +1-800-424-9300 (24 hours)

### 2 Hazard(s) identification

#### Classification of the substance or mixture

Causes serious eye irritation.

May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.

**Label elements:** The product is classified and labeled according to the Globally Harmonized System (GHS)

#### Hazard pictograms



Warning

#### Hazard statements

Causes serious eye irritation.

May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.

#### Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Wear eye protection / face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Get medical advice/attention if you feel unwell.

If eye irritation persists: Get medical advice/attention.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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## NFPA ratings (scale 0 - 4)



Health = 2  
Fire = 1  
Reactivity = 0

## HMIS-ratings (scale 0 - 4)



Health = \*3  
Flammability = 1  
Reactivity = 0

## Other hazards

## Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

## \* 3 Composition/information on ingredients

## Chemical characterization: Mixture

## Description:

Mixture of the hazardous substance(s) listed below with additional nonhazardous ingredients.

The exact percentage (concentration) of composition of the hazardous component(s) has been withheld as a Trade Secret.

## Hazardous components:

111-46-6	Diethylene glycol	40-<50%
105-59-9	2,2'-(methylimino)diethanol	15-<22%
64-19-7	Acetic acid	1-<3%

Additional information: Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.

## \* 4 First-aid measures

## Description of first aid measures

General information: Get medical advice/attention if you feel unwell.

After inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

## After skin contact:

Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

After eye contact: Rinse opened eye for several minutes under running water.

## After swallowing:

Rinse mouth.

Do NOT induce vomiting.

## Information for doctor:

## Most important symptoms and effects, both acute and delayed

Harmful if swallowed.

Irritating to eyes.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

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## 5 Fire-fighting measures

**Special hazards arising from the substance or mixture** No further relevant information available.

**Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

### Methods and material for containment and cleaning up:

Contain and/or absorb spill with inert material (i.e. sand, vermiculite) then place in a suitable container.

Sweep up spilled product into receptacles.

Dispose contaminated material as waste according to section 13 of the SDS.

### Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

### Handling:

#### Precautions for safe handling

Open and handle receptacle with care.

Prevent formation of aerosols.

Avoid contact with eyes, skin and clothing.

Do not take internally.

Practice good personal hygiene to avoid ingestion.

Use only with adequate ventilation.

Wash clothing before reuse.

**FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.**

Avoid contact with eyes.

**Information about protection against explosions and fires:** No special measures required.

### Conditions for safe storage, including any incompatibilities

#### Storage:

**Information about storage in one common storage facility:** No special measures required.

**Further information about storage conditions:** Keep receptacle tightly sealed.

**Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

**Additional information about design of technical systems:** No further data; see item 7.

### Control parameters

**Components with limit values that require monitoring at the workplace:**

**111-46-6 Diethylene glycol**

WEEL (USA) | Long-term value: 10 mg/m<sup>3</sup>

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**64-19-7 Acetic acid**

PEL (USA)	Long-term value: 25 mg/m <sup>3</sup> , 10 ppm
REL (USA)	Short-term value: 37 mg/m <sup>3</sup> , 15 ppm Long-term value: 25 mg/m <sup>3</sup> , 10 ppm
TLV (USA)	Short-term value: 37 mg/m <sup>3</sup> , 15 ppm Long-term value: 25 mg/m <sup>3</sup> , 10 ppm

**Additional information:** The lists that were valid during the creation were used as basis.

**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Avoid contact with the eyes and skin.

The usual precautionary measures for handling chemicals should be followed.

**Breathing equipment:**

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

**Protection of hands:** Rubber or other impervious gloves should be worn to prevent skin contact.

**Material of gloves** Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

**Eye protection:**

Safety glasses with side shield protection.

Safety glasses with side shields should be worn to prevent contact due to splashing. Under high vapor mist concentrations, tightly sealed goggles should be worn.



A face shield should also be worn if there is potential exposure to splash or spray.

**Body protection:**

Protective work clothing

Use personal protective equipment as required.

Take off contaminated clothing.

**9 Physical and chemical properties****Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Liquid
<b>Color:</b>	According to product specification
<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	Not determined.

**pH-value (~) at 20 °C (68 °F):** 9

**Change in condition**

**Melting point/Melting range:** Undetermined.

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<b>Boiling point/Boiling range:</b>	Undetermined.
<b>Flash point:</b>	Not applicable.
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	225 °C (437 °F)
<b>Decomposition temperature:</b>	Not determined.
<b>Auto igniting:</b>	Product is not self-igniting.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>VOC Content (max):</b>	Not determined.
<b>Vapor pressure:</b>	Not determined.
<b>Density: (~) at 20 °C (68 °F)</b>	1.3 g/cm <sup>3</sup> (10.8 lbs/gal)
<b>Relative density</b>	Not determined.
<b>Vapor density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>Molecular weight</b>	Not applicable.
<b>Other information</b>	No further relevant information available.

\* **10 Stability and reactivity****Reactivity**

Stable under normal conditions.  
No further relevant information available.

**Chemical stability**

**Thermal decomposition:** No decomposition if used according to specifications.

**Possibility of hazardous reactions**

No dangerous reactions known.  
No further relevant information available.

**Conditions to avoid** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** Carbon monoxide and carbon dioxide

**Additional information:** See section 7 for information on handling, storage and conditions to be avoided.

\* **11 Toxicological information****Delayed and immediate effects and chronic effects from short or long term exposure**

May cause damage to organs through prolonged or repeated exposure.

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**Information on toxicological effects****Acute toxicity:****LD/LC50 values relevant for classification:****111-46-6 Diethylene glycol**

Oral | LD50 | 1,120 mg/kg (human)

**105-59-9 2,2'-(methylimino)diethanol**

Oral | LD50 | 4,680 mg/kg (rat) (OECD 401)

**64-19-7 Acetic acid**

Dermal | LD50 | 3,310 mg/kg (rat)

**Primary irritant effect:****on the skin:** No irritating effect expected**on the eye:** Causes serious eye irritation.**inhalation:** No irritating effect expected**Ingestion:**

May be fatal if swallowed and enters airways.

May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.

**Additional toxicological information:****Carcinogenic categories****IARC (International Agency for Research on Cancer) Human Carcinogenicity:****Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable**

None of the ingredients are listed.

**NTP (National Toxicology Program)****K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic**

None of the ingredients are listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients are listed.

**12 Ecological information****Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:** Not known to be hazardous to water.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.

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**13 Disposal considerations****Disposal methods:****Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packagings:**

**Recommendation:** Dispose of contents/container in accordance with local/regional/national/international regulations.

**14 Transport information****UN-Number**

DOT, IMDG, IATA

Not applicable.

**UN proper shipping name**

DOT, IMDG, IATA

Not applicable.

**Transport hazard class(es)**

DOT, IMDG, IATA

Class

Not applicable.

**Packing group**

DOT, IATA

IMDG

Not applicable.

III

**Environmental hazards:**

Marine pollutant:

No

**Special precautions for user**

Not applicable.

**Transport/Additional information:** Not classified as a dangerous good for transport by road, rail or air.

DOT

Remarks:

Not Regulated.

**UN "Model Regulation":**

Not applicable.

**15 Regulatory information****SARA (Superfund Amendments and Reauthorization Act)****Section 302/304 (extremely hazardous substances):**

None of the ingredients is listed.

**Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):**

None of the ingredients is listed.

**SARA Section 312/Tier I & II Hazard Categories:**

Health Hazard - Serious eye damage or eye irritation

Health Hazard - Specific target organ toxicity (single or repeated exposure)

**North America Chemical Inventory Status****TSCA (Toxic Substances Control Act - United States):**

All ingredients are listed or exempt from listing unless otherwise noted below.

**CEPA (Canadian DSL):**

All ingredients are listed or exempt from listing unless otherwise noted below.

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**Right to Know Ingredient Disclosure:**

The exact percentage (concentration) of composition of the non-hazardous component(s) has been withheld as a Trade Secret.

7789-41-5 | calcium bromide

7732-18-5 | Water

**California Proposition 65: (Substances <0.1% unless noted in Section 3)****Chemicals known to cause cancer:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

107-21-1 | Ethylene glycol

**Carcinogenicity Categories****TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)****Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable**

None of the ingredients are listed.

**NIOSH-Cancer (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

**Volatile Organic Compounds (VOC) reported per the Emission Standards.**

If no g/L value is provided this product is not subject to above standard.

**16 Other information**

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

**Department issuing SDS:**

GCP Applied Technologies

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+1-800-354-5414

**The first date of preparation** 03/29/2012**Number of revision times and the latest revision date** 1.0 / 08/09/2019

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