

CEMSEAL HDPE

SECTION 1 : IDENTIFICATION OF THE CHEMICAL AND OF THE SUPPLIER

COMMERCIAL PRODUCT NAME : CEMSEAL HDPE
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SECTION 2 : HAZARDS IDENTIFICATION**GHS Classification:**Physical Hazard

Not classified as a physical hazard under GHS criteria

Health Hazard

Not classified as a health hazard under GHS criteria

Environment Hazard

Not classified as an environmental hazard under GHS criteria

GHS Pictogram

None

Signal Word

None

Hazard statements

None

Precautionary statements

None

Response NoneStorage

None

Disposal

None

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SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	%
HPDE	Proprietary	100

SECTION 4 : FIRST AID MEASURES
INHALATION

- Move person to fresh air and call for medical assistance immediately.
- If not breathing, give artificial respiration, if breathing is difficult, give oxygen. Keep at rest.

SKIN CONTACT

- In case of contact, immediately flush skin with large amounts of water and soap while removing contaminated clothing and shoes.
- If irritation persists, get medical attention.

EYE CONTACT

- Immediately flush eyes with large amounts of water until irritation subsides.
- Remove contact lens
- Obtain medical attention, preferably by an ophthalmologist, immediately.

INGESTION

- DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Keep at rest. Get medical attention immediately.

SECTION 5 : FIRE FIGHTING MEASURES
SUITABLE FIRE EXTINGUISHING MEDIA

- Alcohol-resistant foam, Carbon dioxide, or dry chemical type

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

- Combustion products may include and are not limited to: Carbon monoxide and Carbon dioxide.

SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS

- If material is involved in fire, there is a possibility of toxic or dangerous gas emission during thermal decomposition hence do not breath in fumes
- Wear full protective clothing and NIOSH-approved self-contained breathing apparatus.

SECTION 6 : ACCIDENTAL RELEASE MEASURES
PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE

- Wear appropriate protective equipment, e.g., respirators, eye protection, gloves and safety shoes.
- Avoid substance contact with eyes. Do not inhale vapours.
- Ensure supply of fresh air in enclosed rooms.

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ENVIRONMENTAL PRECAUTIONS

- Do not release untreated material into water sources
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.

METHODS AND MATERIALS FOR CONTAINMENTS AND CLEANING UP

- Disposal in accordance to local/national regulations.
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SECTION 7 : HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

- Use appropriate personal protective equipment
- Keep out of reach of children.
- Do not ingest. Do not breathe in gas/fumes/vapour. Avoid contact with skin and eyes.
- For personal protection, see section 8.
- Use only in areas from which all naked lights
- Ensure proper ventilation during handling
- Protect from frost and extremes of temperature.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

- Store in cool, dry and well-ventilated place away from direct sunlight and away from source of ignition and open flames
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SECTION 8 : EXPOSURE CONTROLS/ PERSONAL PROTECTION

CONTROL PARAMETERS/OCCUPATIONAL LIMITS

- Contains no substances with occupational exposure limit values

APPROPRIATE ENGINEERING CONTROL MEASURES

- Ventilation: provide adequate general or local exhaust ventilation

PERSONAL PROTECTION

Respiratory Protection:	Respirator should be used if necessary
Hand Protection:	Use of protective rubber or plastic gloves are recommended for prolonged or repeated skin contact
Eye Protection:	Use of safety glasses or goggles with side shields is recommended.
Skin / Body Protection:	Wear appropriate clothing to prevent repeated or prolonged skin contact

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SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	White HDPE Membrane
Odour	:	Not available
Odour threshold	:	Not applicable
pH	:	Not applicable
Melting point/freezing point	:	160°C
Initial boiling point and boiling range	:	204°C
Flash point	:	301°C
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Not available
Lower flammability or explosive limit	:	Not available
Upper flammability or explosive limit	:	Not available
Vapour pressure	:	Not applicable
Vapour density	:	Not applicable
Relative density	:	1.35
Solubility	:	Not applicable
Partition coefficient	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not available
Viscosity	:	Not applicable

SECTION 10 : STABILITY AND REACTIVITY
REACTIVITY

- No dangerous reaction known under condition of normal use.

CHEMICAL STABILITY

- The product is stable under recommended storage and handling conditions. (see section 7)

POSSIBILITY OF HAZARDOUS REACTION

- Under normal conditions of storage and use, hazardous reactions will not occur.

CONDITIONS TO AVOID

- Keep away from fire source and strong oxidising agents

HAZARDOUS DECOMPOSITION PRODUCTS

- When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, oxides of nitrogen and smoke.
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SECTION 11 : TOXICOLOGICAL INFORMATION

There is no data available on the product itself.

Acute Oral toxicity

Harmful if swallowed.

Acute dermal/skin toxicity

No Data available

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Acute inhalation toxicity

No Data available

Skin corrosion or irritation

May Cause skin irritation.

Serious eye damage or irritation

May be an eye irritant

Respiratory or skin sensitization

No information available on the product.

Germ cell mutagenicity

No information available on the product.

Carcinogenicity

No information available on the product.

Reproductive toxicity

No information available on the product.

Specific Target Organ Toxicity (STOT)- single exposure

No information available on the product.

Specific Target Organ Toxicity (STOT)- repeated exposure

No information available on the product.

Aspiration hazard

No information available on the product.

SECTION 12 : ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity - No data available

Persistence and degradability

Biodegradation - No data available

Bioaccumulative potential

- No data available

Mobility in soil

-No data available

Result of PBT and vPvB assessment

-No data available

Other adverse effects

There is no ecotoxicological test data available on the product itself. The product should not be allowed to enter drains or water courses

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SECTION 13 : DISPOSAL CONSIDERATION

The product should not be allowed to enter drains and water courses.

Preferred methods of waste disposal are incineration or biological treatment in federal/state approved facility. Empty containers should be recycled or disposed of through an approved waste management facility or licensed contractor.

All federal, state and local environmental regulations should be observed

SECTION 14 : TRANSPORT INFORMATION

Transport to be in accordance with ADR/RID for road/rail, IMDG for sea and IATA for Air.

LAND TRANSPORT

Not classified as Dangerous Goods by the criteria of the European Agreement concerning the international carriage of Dangerous Goods (ADR) by Road & Regulations concerning the international carriage of Dangerous goods (RID) by Rail.

UN Number:	Not Classified
Proper shipping name:	-
Class:	-
Subsidiary Risk(s):	-
Packaging Group:	Not Assigned

SEA TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport of Sea.

UN Number:	Not Classified
Proper shipping name:	-
Class:	-
Subsidiary Risk(s):	-
Packaging Group:	Not assigned
Marine Pollutant	No

SEA (Annex II of MARPOL 73/78 and the IBC code)

Not applicable

AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by Air

UN Number:	Not Classified
Proper Shipping Name:	-
Class:	-
Subsidiary Risk(s):	-
Packaging Group:	Not assigned

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SECTION 15 : REGULATORY INFORMATION

Applicable national regulations:

- Standards on Hazard communication for hazardous chemicals and dangerous goods
 - SS 586 : Part 1: 2021- Transport and storage of dangerous goods
 - SS 586 : Part 2: 2014- GHS of classification and labelling of chemicals- Singapore's adaptations
 - SS 586 : Part 3: 2008- Preparation of safety data sheets (SDS)
 - MOM: Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations
 - This product is subject to SDS, labelling, PEL and other requirements in the Acts/Regulations
 - NEA: Environmental Protection and Management Act & Environmental Protection and Management (Hazardous Substances) Regulations.
 - This product is not subject to control under this Acts/Regulations
 - SCDF: Fire Safety Act & Fire Safety (Petroleum and Flammable Materials) Regulations
 - This product is subject to the requirement of this Acts/Regulations
 - SPF: The Arms and Explosive Act, the Arms and Explosives (Explosives) Rules, and the Arms and Explosives (Explosive Precursors) Rules
 - This product is not subject to the requirement of this Acts/Regulations
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SECTION 16 : OTHER INFORMATION

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Abbreviation

ACGIH American Conference of Governmental Industrial

Hygienists TLV Threshold limit value

TWA Time-Weighted Average

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

LD50 Lethal Dose

LC50 Median lethal concentration

IARC International Agency for Research in Cancer

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