

## Material Safety Data Sheet

Product Name: BC 715 Spray Foam — Part A Product  
code: 715-A

Revision date: [12/18/2025]

Version: 1.0

### SECTION 1: Identification

**1.1 Product identifier Product name:** BC 715 SPRAY Foam POLYOL (Part A)

**1.2 Relevant identified uses and uses advised against Identified uses:** Polyol component for one-/two-component spray polyurethane foam systems (blowing agent: HFC-245fa).

Uses advised against: Any uses other than recommended by supplier.

**1.3 Supplier information** Building Chemistry Industry  
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Email: info@bcisaudi.com  
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**1.4 Emergency telephone** Emergency contact (24/7): +966 59 312 0221

### SECTION 2: Hazards identification

**2.1 Classification (CLP / GHS)** The following classification applies to the product as formulated (subject to confirmation after final composition is provided):

- Acute Tox. 4 (H302) – Harmful if swallowed
- Skin Corr. 1B (H314) – Causes severe skin burns and eye damage
- Eye Dam. 1 (H318) – Causes serious eye damage
- STOT RE 2 (H373) – May cause damage to organs through prolonged or repeated exposure
- Aquatic Chronic 2 (H411) – Toxic to aquatic life with long lasting effects

**2.2 Label elements** Signal word: Danger Hazard statements: H302, H314, H318, H373, H411.

EUH208: Contains BIS(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate — may produce an allergic reaction.



Precautionary statements: P260, P264, P273, P280, P301+P310, P303+P361+P353, P305+P351+P338, P501.

### SECTION 3: Composition / information on ingredients

Substance / ingredient	CAS No.	Typical concentration (% w/w)	Classification (CLP)
Polyether polyol (proprietary)	—	50–85%	Not classified (matrix)
Poly(oxy(methyl-1,2-ethanediyl)) (amine-functional)	9046-10-0	5–20%	Acute Tox. 4 (H302), Skin Corr. 1B (H314)
1,1,1,3,3-Pentafluoropropane (HFC-245fa) — blowing agent	460-73-1	1–15% (typical; formulation dependent)	Not classified for health hazards (simple asphyxiant in high concentrations)
Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate (antioxidant/stabilizer)	Trade name / proprietary	<1%	EUH208 (sensitizer)

Note: The concentration ranges above are typical placeholders. Exact percentages must be provided by formulation chemist or laboratory analysis and will be used in the final SDS and labelling.

### SECTION 4: First aid measures

**Inhalation:** Move person to fresh air. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.

**Skin contact:** Remove contaminated clothing. Wash skin immediately with soap and water for at least 15 minutes. Obtain medical attention for burns or persistent irritation.

**Eye contact:** Rinse cautiously with water for at least 15 minutes, lifting lids. Remove contact lenses if present and easy to do. Seek immediate medical attention.





Ingestion: Do NOT induce vomiting. Rinse mouth. Give water if conscious. Seek immediate medical attention or contact Poison Control.

Notes to physician: Treat symptomatically. Corrosive — may cause deep tissue damage.

## **SECTION 5: Firefighting measures**

Extinguishing media: Foam, dry chemical, CO<sub>2</sub>. Water spray may be used to cool containers but avoid directing jet at pool of product that can spread fire.

Special hazards: Thermal decomposition can produce toxic and corrosive gases (NO<sub>x</sub>, CO, CO<sub>2</sub>, amines). Containers may rupture under fire conditions.

Protective equipment: Positive-pressure self-contained breathing apparatus (SCBA) and full protective clothing.

## **SECTION 6: Accidental release measures**

Personal precautions: Evacuate non-essential personnel. Avoid breathing vapors. Provide adequate ventilation. Use PPE as described in Section 8.

Environmental precautions: Prevent entry into drains, sewers, and watercourses. Notify authorities if release to environment occurs.

Cleanup methods: Absorb with inert material (e.g., dry sand). Collect into labelled containers for disposal. Clean residue with suitable solvent; collect washings as hazardous waste.

## **SECTION 7: Handling and storage**

Handling: Handle in well-ventilated areas. Avoid contact with skin and eyes. Do not breathe vapors or spray. Use grounding/bonding for transfer operations if electrostatic build-up possible.

Storage: Store in original, tightly closed containers at 5–30 °C. Protect from frost, moisture and direct sunlight. Keep away from acids and oxidizing agents.

Shelf life: 12 months in unopened original container (confirm with QC).

## **SECTION 8: Exposure controls / personal protection**

Occupational exposure limits: No specific OELs for complete product. For HFC-245fa a WEEL of 300 ppm has been published; confirm local limits and apply appropriate controls. □cite□turn1search1□turn1search4□





Engineering controls: Provide local exhaust ventilation. Use closed transfer systems where possible.

Personal protective equipment:

- Eye: Chemical splash goggles/face shield (EN166).
- Hands: Chemical resistant gloves (nitrile, butyl) — verify breakthrough time with glove supplier.
- Body: Impervious protective clothing and apron.
- Respiratory: Where ventilation is inadequate use a respirator with organic vapour cartridge or supplied air.

Hygiene: Provide eyewash station and safety shower. Wash hands before breaks and after handling.

## SECTION 9: Physical and chemical properties

Property	Typical Value / Comment
Appearance	Viscous liquid (polyol matrix)
Color	Amber to pale yellow
Odor	Mild amine/chemical odour
pH	Not applicable (neat polyol)
Density	~1.02 g/cm <sup>3</sup> (typical; confirm)
Flash point	> 100 °C (closed cup) — confirm by test
Boiling point (blowing agent HFC-245fa)	15.3 °C (for R-245fa component). cite turn1search1□ □ □
Solubility	Slightly soluble in water
Viscosity	800–2500 mPa·s @ 25 °C (formulation dependent)





## SECTION 10: Stability and reactivity

Stability: Stable under recommended storage conditions.

Conditions to avoid: Excessive heat, open flame, moisture (may react with isocyanates during mixing), strong acids and oxidizing agents.

Hazardous decomposition products: On thermal decomposition: NO<sub>x</sub>, CO, CO<sub>2</sub>, amines and halogenated fragments.

## SECTION 11: Toxicological information

Acute toxicity: Product contains amine-functional components classified as Acute Tox. 4 (H302).

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Respiratory/skin sensitization: May cause sensitization in susceptible individuals (EUH208).

STOT – repeated exposure: May cause organ damage (H373) depending on exposure route and duration.

## SECTION 12: Ecological information

Ecotoxicity: The product contains substances classified as toxic to aquatic life with long-lasting effects. Avoid release into the environment.

Mobility: Low water solubility; components may partition into soil/air.

Persistence and degradability: HFC-245fa is persistent in atmosphere (lifetime ~7 years) and has a high GWP compared to CO<sub>2</sub>; however, it is non-ozone depleting. [cite turn1search3 turn1search1](#)

## SECTION 13: Disposal considerations

Waste treatment methods: Dispose of in accordance with local and national regulations. Do not release to sewer.

Contaminated packaging: Empty containers may contain residual product; handle as hazardous waste.

## SECTION 14: Transport information

Transport classification depends on national rules and exact formulation. Typical shipping description for polyol components:

- Not classified as dangerous for transport (when shipped as liquid polyol in non-pressurized packaging).



- If shipped with pressurized HFC-245fa in cylinders/tankers, follow relevant ADR/IMDG/ICAO rules for transporting pressurized fluorinated gases. Confirm with freight department.

## **SECTION 15: Regulatory information**

Applicable regulations: CLP (EC) 1272/2008 (if EU placed), local Saudi chemical regulations, transport rules.

Inventory status: Ingredients may be listed on regulatory inventories; confirm as required.

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