

MATERIAL SAFETY DATA SHEET(MSDS)

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

- CHEMICAL PRODUCT NAME : Hykon CFC-3175
- NAME OF MANUFACTURER : CHEONGWOO CFC CO., LTD.
 - ADDRESS : #14-1, Eogokgongdan3-gil, Yangsan-city, Gyeongnam. Korea
 - TEL No. : 82-55-382-7576
 - FAX No. : 82-55-382-7584
 - EMERGENCY TEL No. : 82-55-338-7576 FAX No. : 82-55-338-7856

2. HAZARD IDENTIFICATION

- CLASS NAME OF HAZARDOUS CHEMICALS FOR MSDS IN KOREA
 - No data available
- PHYSICAL AND CHEMICAL HAZARDS
 - No data available
- ADVERSE HUMAN HEALTH EFFECTS
 - Slightly irritating to the skin, Mildly to severely irritating to the eyes.
- CAUTION MARK IN KOREA
 - No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS REGISTRY NUMBER	COMPOSITION (%)
Polyurethane copolymer	61245-23-6	23~27 %
Butyl Diglycol ether	112-34-5	12~16 %
Water	7732-18-5	59~63 %

4. FIRST-AID MEASURES

- EYE CONTACT : First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
- SKIN CONTACT : Wash with soap and water. Get medical attention if irritation develops or persists.

·INHALATION : Remove to fresh air. If not breathing, give artificial respiration.
If breathing difficult, give oxygen. Get immediate medical attention.

·INGESTION : If swallowed, do not induce vomiting. Give victim a glass of water.
Call a physician immediately. Never give anything by mouth
to an unconscious person.

5. FIRE-FIGHTING MEASURES

·EXTINGUISHING MEDIA : Use powder, alcohol-resistant foam, water spray,
carbon dioxide.

·SPECIFIC HAZARDS WITH REGARD TO FIRE-FIGHTING MEASURES :

Keep personnel removed from and upwind of fire. As in any fire, wear
self-contained breathing apparatus pressure-demand and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

·PERSONAL PRECAUTION : Evacuate non essential personnel.

Shut off all sources of ignition : No flares, smoking, or flames in area.

Wear proper protective equipment.

·ENVIRONMENTAL PRECAUTION : Do not let this chemical enter the environment.

·PROCEDURE FOR CLEAN UP OF SPILLS AND LEAKS :

Collect leaking and spilled liquid in closed containers as far as possible.

7. HANDLING & STORAGE

·HANDLING : Wash thoroughly after handling. Avoid contact with eyes, skin and
clothing. Do not reuse this container. Use only in a well-ventilated
area. Use spark proof tools and explosion-proof equipment.

·STORAGE : Keep container closed when not in use. Do not store in direct sunlight.
Keep away from heat and flame.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

·ENGINEERING MEASURES : Facilities storing or utilizing this substance should

be equipped with an eyewash facility and a safety shower.
Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this substance.

- RESPIRATORY PROTECTION : Chemical cartridge respirator with an organic vapor cartridge. Positive-pressure self-contained breathing apparatus.
- EYE PROTECTION : Wear safety glasses with side shields or goggles and a face shield.
- HANDS, SKIN AND BODY PROTECTION : Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots. Butyl rubber is recommended.

9. PHYSICAL & CHEMICAL PROPERTIES

- APPEARANCE : Slight yellowish liquid
- PH : Not available
- MELTING POINT : Not available
- BOILING POINT : Not available
- FLASH POINT : $>100^{\circ}\text{C}$
- DENSITY : 1.04 ± 0.02 (20°C)
- VAPOUR PRESSURE : Not available

10. PHYSICAL HAZARD(STABILITY & REACTIVITY)

- FLASH POINT : $>100^{\circ}\text{C}$
- AUTOIGNITION TEMPERATURE : Not available
- UPPER AND LOWER EXPLOSION LIMIT : Not available
- FLAMMABILITY : Not available
- SPONTANEOUS COMBUSTIBILITY : Not available
- REACTIVITY WITH WATER : Not available

- OXIDIZIBILITY : This substance is not oxidant.
- SELF-REACTIVITY : This substance is not self-reactive.
- STABILITY & REACTIVITY : This substance will be not react to blend with other material.
- HAZARDOUS DECOMPOSITION PRODUCTS : Not available

11. TOXICOLOGICAL INFORMATION

- CORROSIVE AND IRRITANT PROPERTIES
 - : Primary skin irritation/corrosion in the rabbit. Slightly irritating.
 - : Acute eye irritation/corrosion in the rabbit. Mildly to severely irritating.
- ACUTE TOXICITY : No data available
- CARCINOGENICITY : Not established on IARC, NTP, EU, OSHA.
- MUTAGENIC EFFECTS : No data available

12. ECOLOGICAL INFORMATION

- BIODEGRADATION : No data available
- BIOACCUMULATION : No data available
- FISH TOXICITY : No data available

13. DISPOSAL CONSIDERATION

Burn in a chemical incinerator equipped with an afterburner and scrubber. Do not dump into sewers, on the ground or into any body of water. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity or other sources of ignition. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

14. TRANSPORT INFORMATION

- Not dangerous goods
- Any transportation practice must be in compliance with laws and regulation in your country or region.

15. LEGAL REGULATION

- Industry safety health measure law : No data available
- hazard chemistry substance administration law :
 - Toxic Chemicals: No subject chemicals
 - Observational Chemicals: No subject chemicals

Prohibited Chemicals: No subject chemicals
Restricted Toxic Chemicals: No subject chemicals
Korean TRI Chemicals: No subject chemicals
Accident Release Prevention Chemicals: No subject chemicals
Dangerous material safety administration law : No data available

The fire services Act : 4 class – 3 oil class

16. REFERENCE MATERIALS

- Material source : product handbook issued by manufacturing company
MSDS from Korea occupational safety & health agency
- The framing date : 2011.07.16
- The final revision date : 2019.12.04