

SAFETY DATA SHEET

Date Printed: January 20, 2020

Version: 5

Regulation: According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

1. Identification

1.1 Product identifier

1.1.1 Product name: CP-430, CP-450, CP-705, CP-710, CP-430F, CP-450F, CP-710F, CP-430N, KCM-12, KCH-12, KCH-15, KCH-15S, ECM70

1.1.2 Other means of identification: Vinyl chloride. vinyl acetate polymer

1.2 Recommended use of the chemical and restrictions on use

1.2.1 Recommended use: It is also used for the main material of paint, adhesive, ink, sealing and resins for making tile and etc.

1.2.2. Restrictions on use: Do not use for purposes other than those recommended

1.3 Details of the supplier of the safety data sheet

1.3.1 Manufacturer

Company name: Hanwha Solutions Co, Ltd.

Address: Ulsan plant, Hanwha Solutions Co, Ltd ,22, Saneop-ro 440 beon-gil, Nam-gu, Ulsan, Korea

Prepared by: PVC Production 1 Team, PVC Production 2 Team

Contact Telephone: (Ulsan plant) +82-52-279-5314, +82-52-279-5344

1.3.2 Supplier&Distributor

Company name: Hanwha Solutions Co, Ltd.

Address: Hanwha Bldg., Janggyo-dong, Jung-gu, Seoul, Korea

Prepared by : PSR Sales Team

Contact Telephone: +82-2-729-2773, +82-2-729-4079

1.4 Emergency phone number

Emergency phone : +82-2-729-2773 (Sales) / +82-52-279-5314, +82-52-279-5344 (Plant)

2. Hazard(s) identification

2.1 Classification of the substance or mixture

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Physical / Chemical Hazards:

Not classified

Health Hazards:

Not classified

Environmental Hazards:

Not classified

2.2 Label elements, including precautionary statements

○ **Pictogram and symbol:** Not applicable

○ **Signal word:** Not applicable

○ **Hazard statements:** Not applicable

○ **Precautionary statements:**

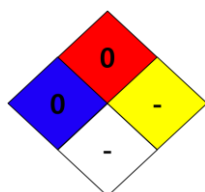
- **Prevention:** Not applicable

- **Treatment:** Not applicable

- **Storage:** Not applicable

- **Disposal:** Not applicable

2.3 Other hazard information not included in hazard classification (NFPA)



- o **Health:** 0
- o **Flammability:** 0
- o **Reactivity:** -
- o **Specific hazard:** -

3. Composition/information on ingredients

Component	Common name and synonyms	CAS No.	Conc. / %
Vinyl chloride, vinyl acetate polymer	Acetic acid, vinyl ester, polymer with chloroethylene	9003-22-9	100

4. First-aid measures

4.1 Description of first aid measures

Eye contact

- In case of contact with substance, immediately flush eyes with running water at least 20 minutes.
- Get immediate medical advice/attention.

Skin contact

- In case of contact with substance, immediately flush skin with running water at least 20 minutes.
- Remove and isolate contaminated clothing and shoes.
- Get immediate medical advice/attention.

Inhalation

- Specific medical treatment is urgent.
- Move victim to fresh air.
- Give artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.

Ingestion

- Do not let him/her eat anything, if unconscious.
- Get immediate medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

- None known

4.3 Indication of immediate medical attention and notes for physician

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

5. Fire-fighting measures

5.1 Extinguishing media

- **Suitable extinguishing media:** Use regular foam, water, CO₂, dry fire extinguisher when fighting fires involving this material.
- **Unsuitable extinguishing media:** Not available

5.2 Specific hazards arising from the chemical

- Thermal decomposition products: halogen compound, carbon oxides
- Dust may form explosive mixtures with air.
- May be ignited by heat, sparks or flames.
- Containers may explode when heated.
- Some of these materials may burn, but none ignite readily.
- Fire will produce irritating and/or toxic gases.
- If inhaled, may be harmful.

5.3 Special protective equipment and precautions for fire-fighters

- Dike fire-control water for later disposal; do not scatter the material.
- Move containers from fire area if you can do it without risk.
- Fire involving Tanks; Cool containers with flooding quantities of water until well after fire is out.
- Fire involving Tanks; Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- Fire involving Tanks; Always stay away from tanks engulfed in fire.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Absorb spills with inert material (e.g., dry sand or earth), then place in a chemical waste container.
- Eliminate all ignition sources.
- Stop leak if you can do it without risk.
- Please note that materials and conditions to avoid.
- Ventilate the area.
- Do not touch or walk through spilled material.
- Prevent dust cloud.

6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements of confined areas.

6.3 Methods and materials for containment and cleaning up

- Small Spill; Flush area with flooding quantities of water. And take up with sand or other non-combustible absorbent material and place into containers for later disposal.
- Large Spill; Dike far ahead of liquid spill for later disposal.
- With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

7. Handling and storage

7.1 Precautions for safe handling

- Please note that materials and conditions to avoid.
- Wash your hands thoroughly after handling.
- Please work with reference to engineering controls and personal protective equipment.
- Be cautious with the lumber injury for the resin bag is 25kg. And prevent the resin bag not to spill by peaks and excessive force.
- Be cautious about the safety accidents could happen when carrying and piling up the products.

7.2 Conditions for safe storage, including any incompatibilities

- Protect from sunlight and store in a closed container.
- Store in cool and dry place.
- Please note that there are materials and conditions to avoid.

8. Exposure controls/personal protection

8.1 Occupational Exposure limits

- o **ACGIH regulation:** Not available
- o **Biological exposure index:** Not available
- o **OSHA regulation:** Not available
- o **NIOSH regulation:** Not available
- o **EU regulation:**
 - Not available
- o **Other:**
 - Not available

8.2 Exposure controls

Appropriate engineering controls

- Good general ventilation (typically 10 air changes per hour) should be used.
- Ventilation rates should be matched to conditions.
- If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
- If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Respiratory protection

- Wear NIOSH approved full or half face piece (with goggles) respiratory protective equipment when necessary.

Eye protection

- Wear safety goggles as follow if eye irritation or other disorder occur.
 - ; In case of gaseous state organic material: enclosed safety goggles
 - ; In case of vapour state organic material: safety goggles or breathable safety goggles
 - ; In case of particulate material: breathable safety goggles
- An eye wash unit and safety shower station should be available nearby work place.

Hand protection

- Wear appropriate protective gloves by considering physical and chemical properties of chemicals.

Body protection

- Wear appropriate protective clothing by considering physical and chemical properties of chemicals.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Description :	Solid
Color :	white
Odor :	Sweet odor
Odor threshold :	Not available
pH :	Not available
Melting point/freezing point :	Not available
Initial boiling point and boiling range :	Not available
Flash point :	391°C
Evaporation rate :	Not applicable
Flammability (solid, gas) :	Not available
Upper/lower flammability or explosive limits :	Not available

Vapor pressure :	Not applicable
Vapor density :	Not available
Relative density	Not available
Solubility :	1.4
Partition coefficient: n-octanol/water :	Not available
Auto-ignition temperature :	454 °C
Decomposition temperature	Not available
Viscosity :	Not available

“NOTE: The physical data presented above are typical values and should not be construed as a specification”

10. Stability and reactivity

10.1 Reactivity/Chemical stability/Possibility of hazardous reactions:

- Stable under normal temperatures and pressures.
- It is not polymerization.

10.2 Conditions to avoid:

- Keep away from heat/sparks/open flames/hot surfaces.

10.3 Incompatible materials:

- Carbon oxides, Acid halogen compound

10.4 Hazardous decomposition products:

- Not available

11. Toxicological information

Information on toxicological effects	
(a) Acute toxicity	
Oral	Not available
Dermal	Not available
Inhalation	Not available
(b) Skin Corrosion/ Irritation	Not available
(c) Serious Eye Damage/ Irritation	Not available
(d) Respiratory sensitization	Not available
(e) Skin Sensitization	Not available
(f) Carcinogenicity	Not classified
	IARC : Group 3

(g) Mutagenicity	Not available
(h) Reproductive toxicity	Not available
(i) Specific target organ toxicity (single exposure)	Not available
(j) Specific target organ toxicity (repeat exposure)	Not available
(k) Aspiration Hazard	Not available

12. Ecological information

12.1 Toxicity	
Acute toxicity	Not available
Chronic toxicity	Not available
12.2 Persistence and degradability	Not available
12.3 Bioaccumulative potential	Not available
12.4 Mobility in soil	Not available
12.5 Hazardous to the ozone layer	Not Classified
12.6 Other adverse effects	Not available

13. Disposal considerations

13.1 Disposal method

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

13.2 Disposal precaution

- Consider the required attentions in accordance with waste treatment management regulation.
- Do not dump this product into any sewers, on the ground, or into any body of water.
- Dispose of in accordance with all applicable federal, state, and local regulations..

14. Transport information

14.1 UN No.: Not applicable

14.2 UN Proper shipping name: Not applicable

14.3 Transport Hazard classes: Not applicable

ADR: Not applicable

IMDG: Not applicable

ICAO/IATA: Not applicable

RID: Not applicable

14.4 Packing group: Not applicable**14.5 Environmental hazards:** Not applicable**14.6 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code) :** Not established**14.7 Special precautions for user****in case of fire:** Not applicable**in case of leakage:** Not applicable**15. Regulatory information****15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture****USA Regulatory Information****TSCA (Toxic Substances Control Act):** Section 8 (b) inventory (Present) [XU]**Proposition 65:** Not regulated**OSHA Regulation:** Not regulated**CERCLA Regulation:** Not regulated**SARA 302 Regulation:** Not regulated**SARA 304 Regulation:** Not regulated**SARA 313 Regulation:** Not regulated**Foreign Regulatory Information****Substance of Rotterdame Protocol:** Not regulated**Substance of Stockholme Protocol:** Not regulated**Substance of Montreal Protocol:** Not regulated**Foreign Inventory Status**

- Korea management information: Existing Chemical Substance (KE-35350)
- European List of Notified Chemical Substances (ELINCS) : Present (420-490-3)
- Japan management information: Existing and New Chemical Substances (ENCS): Present
(6)-76, (6)-82
- China management information: Inventory of Existing Chemical Substances (IECSC): Present (24733)
- Australia management information: Australian Inventory of Chemical Substances (AICS): Present
- Canada management information: Domestic Substances List (DSL): Present
- New Zealand management information: New Zealand Inventory of Chemicals (NZIoC): May be used as a single component chemical under an appropriate group standard.
- Philippines management information: Philippine Inventory of Chemicals and Chemical Substances (PICCS): Present

16. Other information, including date of preparation or last revision

16.1 Indication of changes :

Preparation date : February 2, 2018

Version : 4

Revision date : January 20, 2020

16.2 Key literature reference and sources for data:

- National chemicals information systems; <http://ncis.nier.go.kr>
- Pubchem; <http://pubchem.ncbi.nlm.nih.gov/>
- AKRON; <http://ull.chemistry.uakron.edu/erd/>
- IARC Monographs on the Evaluation of Carcinogenic Risks to Humans; <http://monographs.iarc.fr>
- ECHA; <http://echa.europa.eu/web/guest>
- HSDB; <http://toxnet.nlm.nih.gov/>
- OECD SIDS; <http://webnet.oecd.org/>
- NIOSH(The National Institute for Occupational Safety and Health)
- ACGIH(American Conference of Governmental Industrial Hygienists)
- TOMES-LOLI®; <http://www.rightanswerknowledge.com/loginRA.asp>
- National Emergency Management Agency-Korea dangerous material inventory management system;
<http://hazmat.mpss.kfi.or.kr/index.do>
- Waste Control Act enforcement regulation attached [1]
- EPISUITE Program ver.4.1

16.3 Abbreviations

ACGIH: American Conference of Governmental Industrial hygienists

NIOSH: The National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

IARC: International Agency for Research on Cancer

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

ICAO/IATA: International Civil Aviation Organization/ International Air Transport Association

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

16.4 Other

- Product should be handled, stored, and used in accordance with the generally accepted industrial hygiene practices and in conformity with all the applicable legal regulations.
- The information provided herein is based on the knowledge possessed at this present time from the view point of safety requirements.
- It should, therefore, not be construed as guaranteeing specific properties.