

SAFETY DATA SHEET

CL ACR 13 HFP Acrylic Finish

Reformatted into the Century Lion SDS template from the manufacturer's original SDS (Report No. HBRATDXCLYXGS-004, Version V2.0.0.1, prepared 2026/01/06). Content follows the original.

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Supersedes	None

SECTION 1: Identification of the Chemical and the Company

Product Identification

Product name	CL ACR 13 HFP Acrylic Finish
Product name in original SDS	CL ACR 13 Plus Fast-Drying Safety High-Flash Point Acrylic Topcoat
Local-language product name	高闪点工业防腐漆
Product code	Not available
Product type	Mixture
CAS no.	Not applicable
EC no.	Not applicable
Molecular formula	Not applicable

Recommended Use and Restrictions on Use

Recommended use	Anti-corrosion protection for metal surfaces.
Restrictions on use	Please consult the manufacturer.

Company Identification

Manufacturer / supplier	Hebei Ruian Tiandi New Materials Co., Ltd.
Address	East of Donghuan Road, East District of the Economic Development Zone, Boye County, Baoding City, Hebei Province, China
Postal code	071300
Telephone	15531297869
Fax	—
Email / website	18911368888@163.com

Emergency Contact Telephone

Emergency contact	0312-5838777
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SECTION 2: Hazards Identification

Emergency Overview

Liquid. Combustible in the presence of open flame or high heat. Causes serious eye irritation.

GHS Hazard Categories

The following classification is based on the Chinese chemical classification and labelling standards GB 30000.2-2013 through GB 30000.29-2013, GB 30000.1-2024, and the GB 30000.30-2025 series.

Hazard class	Category
Flammable Liquid	Category 4
Serious Eye Damage / Eye Irritation	Category 2

GHS Label Elements

Hazard symbol (pictogram)	Exclamation mark (GHS07) – warning pictogram for flammable/irritant hazard
Signal word	Warning

Hazard Statements

Code	Statement
H227	Combustible liquid
H319	Causes serious eye irritation

Precautionary Statements

Prevention

Code	Statement
P210	Keep away from heat, sparks, open flames, hot surfaces. No smoking.
P264	Wash face and hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response

Code	Statement
P370+P378	In case of fire: Use extinguishing media suitable for the surrounding fire.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

Storage

Code	Statement
P403+P235	Store in a well-ventilated place. Keep cool.

Disposal

Code	Statement
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Description of Other Hazards

Physical and Chemical Hazards

Combustible in the presence of open flame or high heat.

Health Hazards

Inhalation	Inhalation of this substance may cause adverse health effects or respiratory discomfort.
Ingestion	Accidental ingestion of this product may be harmful to health.
Skin contact	Entry into the blood through cuts, abrasions, or lesions may produce systemic, harmful effects.
Eyes	This product can cause serious eye irritation. Direct eye contact may cause severe inflammation accompanied by pain.

Environmental Hazards

Refer to Section 12 of this SDS.

SECTION 3: Composition / Information on Ingredients

Substance / Mixture

Mixture

Component	CAS no.	EC no.	Concentration (wt %)
Heavy calcium carbonate powder	71-34-1	207-439-9	55.00
Ethylene glycol diacetate	111-55-7	203-881-1	22.25
Solid C9 petroleum resin	64742-16-1	265-116-8	12.75
Titanium dioxide	1317-80-2	215-282-2	10.00

SECTION 4: First-Aid Measures

Description of First-Aid Measures

General advice	First-aid treatment is normally required. Show this SDS to the attending physician.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. Seek medical attention if discomfort occurs.
Skin contact	Remove contaminated clothing immediately. Wash skin with plenty of soap and water for at least 15 minutes. Seek medical attention if discomfort occurs.
Ingestion	Rinse mouth. Drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
Inhalation	Move the affected person to fresh air immediately. Give oxygen if breathing is difficult. Do not give mouth-to-mouth resuscitation if the victim ingested or inhaled the substance. If breathing has stopped, perform CPR immediately. Seek medical attention immediately.
Protection of first aiders	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves and prevent spread of contamination.

Most Important Symptoms and Health Effects

- Limited evidence suggests that repeated or prolonged occupational exposure may produce cumulative health effects involving organs or biochemical systems.

Advice for Protection of First Responders

- Remove all sources of ignition and increase ventilation.
- Avoid contact with skin and eyes.
- Avoid inhalation of vapors.
- Use protective equipment, including respiratory protection.

Special Notes for Physicians

- Treat according to symptoms presented.
- Note that symptoms may be delayed in onset.

SECTION 5: Fire-Fighting Measures

Extinguishing Media

Suitable extinguishing media	Use extinguishing media suitable for the surrounding environment.
Unsuitable extinguishing media	No restriction on the type of extinguishing media used.

Special Hazards Arising from the Substance or Mixture

- No data available.

Precautions for Fire-Fighting and Protective Measures

- When fighting fire, wear a respirator (meeting MSHA/NIOSH or equivalent requirements) and full protective clothing.
- Fight fire from a safe distance with adequate protection.
- Prevent fire-fighting water from contaminating surface water and groundwater systems.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

1. Use personal protective equipment; do not inhale gas/fumes/vapor/spray.
2. Ensure adequate ventilation. Remove all sources of ignition. Take anti-static precautions.
3. Evacuate personnel promptly to a safe area, away from the spill and upwind.

Environmental Precautions

1. Where it is safe to do so, take measures to prevent further leakage or spillage.
2. Avoid release to the surrounding environment.

Methods and Materials for Containment and Cleaning Up

1. Cut off the source of the leak if possible.
2. Keep the spill area ventilated.
3. For small spills, absorb with dry sand or an inert absorbent material; for large spills, dike to contain.
4. Adsorbed material/collected material should be stored in a suitable, sealed container and disposed of in accordance with local laws and regulations.
5. Contain the spill; collect using an explosion-proof vacuum cleaner or a wet brush and place in a container.

Preventive Measures Against Secondary Hazards

1. Eliminate ignition sources and prevent spilled material from entering sewers or basements.

SECTION 7: Handling and Storage

Handling

1. Handle in a well-ventilated area.
2. Wear suitable personal protective equipment.
3. Avoid contact with skin and eyes.
4. Keep away from heat sources, sparks, open flames, and hot surfaces.

Storage

1. Keep containers tightly closed.
2. Store in a dry, cool, well-ventilated area.
3. Keep away from heat sources, sparks, open flames, and hot surfaces.
4. Store away from incompatible materials and food containers.

SECTION 8: Exposure Controls and Personal Protection

Control Parameters

Occupational exposure limits	No relevant limits established
Biological limits	No relevant limits established

Monitoring Methods

1. EN 14042 - Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2. GBZ/T 300 and GBZ/T 160 series standards - Determination of toxic substances in workplace air.

Engineering Controls

1. Maintain adequate ventilation, especially in enclosed areas.
2. Ensure eyewash stations and safety showers are available near the workplace.
3. Use explosion-proof electrical equipment, ventilation, and lighting equipment.
4. Establish emergency evacuation routes and necessary refuge areas.

Personal Protective Equipment

PPE: general requirements	Eye protection, hand protection, respiratory protection, protective clothing, and protective footwear.
Eye protection	Suitable safety protective goggles must be worn.
Hand protection	Anti-static chemical protective gloves must be worn.
Respiratory protection	Suitable personal respiratory protective equipment must be worn.
Skin and body protection	Anti-static chemical protective clothing and anti-static footwear must be worn.

SECTION 9: Physical and Chemical Properties

Appearance	White, opaque liquid
Odor	Characteristic odor
Odor threshold	No data available
pH	No data available
Melting point / freezing point	77 °C
Initial boiling point and boiling range	190.1 °C
Flash point (closed cup)	85 °C
Evaporation rate	No data available
Flammability	Combustible
Upper / lower explosive limit	Upper: no data available; Lower: no data available
Vapor pressure (Pa)	10.32 (20°C)
(Relative) vapor density (air = 1)	No data available
Relative density (water = 1)	No data available
Solubility	Soluble in water
Octanol/water partition coefficient	log Pow = 0.1 (40°C)
Auto-ignition temperature	480 °C
Decomposition temperature	No data available
Kinematic viscosity	No data available

SECTION 10: Stability and Reactivity

Reactivity	No data available.
Chemical stability	Stable under proper conditions of use and storage.
Possibility of hazardous reactions	No data available.
Conditions to avoid	Incompatible materials, heat, flame, and sparks.
Incompatible materials	No data available.
Hazardous decomposition products	No hazardous decomposition products will be produced under normal conditions of storage and use.

SECTION 11: Toxicological Information
Acute Toxicity

Component	LD50 oral	LD50 dermal	LC50 inhalation (4 h)
Ethylene glycol diacetate	6850 mg/kg (rat)	9370 mg/kg (rabbit)	No data available

Carcinogenicity

Component	IARC carcinogen classification	NTP carcinogen report
Heavy calcium carbonate powder	Not listed	Not listed
Ethylene glycol diacetate	Not listed	Not listed
Solid C9 petroleum resin	Not listed	Not listed
Titanium dioxide	Not listed	Not listed

Other Information

Skin corrosion / irritation	Based on available data, the classification criteria are not met
Serious eye damage / irritation	Causes serious eye irritation (Category 2)

Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT – single exposure	Based on available data, the classification criteria are not met
STOT – repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met

SECTION 12: Ecological Information

Acute Aquatic Toxicity

Component	Fish	Crustacea	Algae / aquatic plants
Heavy calcium carbonate powder	No data available	No data available	No data available
Ethylene glycol diacetate	LC50: 40.45 mg/L (96h)	EC50: >116.3 mg/L (48h)	ErC50: >119.86 mg/L (72h)
Solid C9 petroleum resin	No data available	EC50: >100 mg/L (48h)	ErC50: >100 mg/L (72h)
Titanium dioxide	LC50: 10000 mg/L (96h)	No data available	No data available

Chronic Aquatic Toxicity

No data available

Persistence and Degradability

Component	Persistence (water / soil)	Persistence (air)
Ethylene glycol diacetate	Low	Low
Titanium dioxide	High	High

Bioaccumulative Potential

Component	Bioaccumulation potential	Remarks
Ethylene glycol diacetate	Low	Log Kow = 0.4048
Titanium dioxide	Low	BCF = 10

Mobility in Soil

Component	log Koc	Remarks
Ethylene glycol diacetate	1	25°C
Titanium dioxide	1.375	-

Results of PBT and vPvB Assessment

Component	PBT / vPvB assessment result [per (EC) No 1907/2006]
Heavy calcium carbonate powder	Insufficient data; cannot be assessed at this time
Ethylene glycol diacetate	Not classified as PBT/vPvB
Solid C9 petroleum resin	Insufficient data; cannot be assessed at this time
Titanium dioxide	Not applicable

SECTION 13: Disposal Considerations

Waste from residues	Refer to national and local regulations before disposal. Incineration is recommended.
Contaminated packaging	Empty containers may retain residues that are hazardous; keep away from heat and ignition sources. Return to supplier for recycling if possible.
Disposal precautions	Refer to waste chemicals and contaminated packaging above.

SECTION 14: Transport Information

Labels and markings	Not applicable
Sea transport (IMDG)	Not regulated as dangerous goods for transport
Air transport (IATA-DGR)	Not regulated as dangerous goods for transport
Road transport	Not regulated as dangerous goods for transport (JT/T 617-2018)
Transport precautions	Transport vehicles should be equipped with appropriate types and quantities of fire-fighting equipment and spill emergency response equipment. Before transport, check that packaging containers are intact and sealed. Vehicles should display markings and placards in accordance with applicable transport requirements.

SECTION 15: Regulatory Information
International Chemical Inventories

Component	A	B	C	D	E	F	G	H	I	J	K	L	M
Heavy calcium carbonate powder	x	x	x	x	x	x	x	x	x	x	x	x	x
Ethylene glycol diacetate	√	√	√	√	√	√	√	√	√	√	√	√	√
Solid C9 petroleum resin	√	√	√	√	√	√	√	√	√	√	√	√	√
Titanium dioxide	√	√	√	√	√	√	√	√	√	√	√	√	√

A: China Inventory of Existing Chemical Substances (IECSC)

B: EC Inventory

C: US Toxic Substances Control Act Inventory (TSCA)

D: Canada Domestic Substances List (DSL)

E: New Zealand Inventory of Chemicals (NZIoC)

F: Philippine Inventory of Chemicals and Chemical Substances (PICCS)

G: Korea Existing Chemicals List (KECL)

H: Australian Inventory of Industrial Chemicals (AIIC)

I: Japan Existing and New Chemical Substances (ENCS)

J: Thailand Existing Chemical Inventory (TECI)

K: Mexico National Chemical Inventory (INSQ)

L: Russia Existing Substances Inventory (DRAFT)

M: Taiwan (China) Chemical Substance Inventory (TCSI)

International Convention Controlled Substances

Component	A	B	C
Heavy calcium carbonate powder	x	x	x
Ethylene glycol diacetate	x	x	x
Solid C9 petroleum resin	x	x	x
Titanium dioxide	x	x	x

A: Montreal Protocol on Substances that Deplete the Ozone Layer

B: Stockholm Convention on Persistent Organic Pollutants (POPs)

C: Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade

China Chemical Management Inventories

Component	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Heavy calcium carbonate powder	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Ethylene glycol diacetate	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Solid C9 petroleum resin	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Titanium dioxide	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

A: Catalogue of Hazardous Chemicals (2015 Edition), jointly issued by the former State Administration of Work Safety and nine other ministries, Announcement No. 5 [2015]

B: China Catalog of Severely Restricted Toxic Chemicals, Ministry of Ecology and Environment / MOFCOM / GACC Announcement No. 32 [2023]

C: China Catalogue of Controlled Ozone-Depleting Substances for Import and Export (2021 Edition), MEE Announcement No. 50 [2021]

D: Catalogue of Hazardous Chemicals Subject to Priority Regulation (Batches 1 and 2), former SAWS Notice No. 95 [2011] and No. 12 [2013]

E: Catalogue of Hazardous Chemicals Subject to Key Environmental Management, former Ministry of Environmental Protection General Office, Document No. 33 [2014]

F: Catalogue of Monitored Chemicals of Various Categories, MIIT Order No. 52 [2020]

G: Priority Control Chemicals List (Batch 1), former Ministry of Environmental Protection / MIIT / former National Health and Family Planning Commission Announcement No. 83 [2017]

H: Catalogue of Specially Regulated Hazardous Chemicals (1st Edition), Ministry of Emergency Management / MIIT / Ministry of Public Security / Ministry of Transport Announcement No. 1 [2020]

I: List of Toxic and Hazardous Water Pollutants (Batches 1 and 2), MEE Announcement No. 28 [2019] and No. 15 [2025]

J: Catalogue of Highly Toxic Substances, former Ministry of Health Document No. 142 [2003]

K: Catalogue of Explosive Precursor Hazardous Chemicals (2017 Edition), Ministry of Public Security Announcement, May 11, 2017

L: Catalogue of Narcotic and Psychotropic Pharmaceutical Substances, National Medical Products Administration Announcement No. 55 [2025]

M: Classification and Catalogue of Precursor Chemicals, State Council Order No. 445 [2005] and subsequent amendments

N: Catalogue for Import and Export Administration of Precursor Chemicals, MOFCOM Order No. 7 [2006]

O: Catalogue for International Verification and Administration of Precursor Chemicals, MOFCOM / Ministry of Public Security Order No. 8 [2006]

Note: "√" indicates the substance is listed under the regulation; "x" indicates no data available or not listed.

SECTION 16: Other Information

Revision Information

Date of preparation	2026/01/06
Date of revision	-
Reason for revision	-

References

1. International Programme on Chemical Safety: International Chemical Safety Cards (ICSC), <http://www.ilo.org/dyn/icsc/showcard.home>
2. International Agency for Research on Cancer, <http://www.iarc.fr/>
3. OECD eChemPortal, <https://www.chemportal.org/chemportal/>
4. US NOAA CAMEO Chemicals database, <http://cameochemicals.noaa.gov/search/simple>
5. US National Library of Medicine: ChemIDplus, <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>
6. US EPA: Integrated Risk Information System, <http://cfpub.epa.gov/iris/>
7. US DOT: Emergency Response Guidebook, <http://www.phmsa.dot.gov/hazmat/library/erg>
8. German GESTIS Substance Database, <http://gestis-en.itrust.de/>

Abbreviations

Abbr.	Meaning	Abbr.	Meaning
CAS	Chemical Abstracts Service	UN	United Nations
PC-STEL	Permissible Concentration – Short Term Exposure Limit	OECD	Organisation for Economic Co-operation and Development
PC-TWA	Permissible Concentration – Time Weighted Average	IMDG-CODE	International Maritime Dangerous Goods Code
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No-Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No-Effect Concentration	IATA	International Air Transport Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC50	Lethal Concentration, 50%	NFPA	National Fire Protection Association

Abbr.	Meaning	Abbr.	Meaning
LD50	Lethal Dose, 50%	NTP	National Toxicology Program
EC50	Effective Concentration causing 50% response	PBT	Persistent, Bioaccumulative and Toxic substance
ECx	Concentration causing x% response	vPvB	very Persistent, very Bioaccumulative substance
POW	Octanol/Water Partition Coefficient	CMR	Carcinogenic, Mutagenic or toxic for Reproduction
BCF	Bioconcentration Factor	RPE	Respiratory Protective Equipment
ED	Endocrine Disruptor		

Disclaimer

This Safety Data Sheet is formatted in accordance with the requirements of China national standards GB/T 16483-2008 and GB/T 17519-2013. Data are sourced from internationally recognized databases and information submitted by the company; other information is based on the knowledge currently available to the company. Every effort has been made to ensure the accuracy of the information contained herein; however, due to the diversity of information sources and the limitations of the company's knowledge, this document is provided for reference purposes only. Users of this Safety Data Sheet should exercise their own judgment as to the suitability of the information for their intended purpose. The company accepts no liability for any damage arising from the handling, storage, use, or disposal of this product.

Hebei Ruian Tiandi New Materials Co., Ltd.

East of Donghuan Road, East District of the Economic Development Zone, Boye County, Baoding City, Hebei Province, China (postal code 071300)

Tel: 15531297869 Email: 18911368888@163.com Emergency: 0312-5838777