

# **SAFETY DATA SHEET**

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Trade name or designation of the mixture	CN709Series
Registration number	N/A
Synonyms	None.
Issue date	07-Jun-2013
Version number	02
Revision date	29-Sep-2013
Supersedes date	07-Jun-2013
1.2. Relevant identified uses o	f the substance or mixture and uses advised against
Identified uses	Inkjet printing.
Uses advised against	None known.
Company identification	Hewlett-Packard, Ltd. Cain Road, Amen Corner Bracknell, Berkshire, RG12 1HN Telephone 44 (0) 879 013 0790
	Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-503-494-7199 HP Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com Poison Information Center 0207771 5307

## SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

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Emergency overview	Contact with skin and eyes may result in irritation.
Hazard summary	
Physical hazards	Not classified for physical hazards.
Health hazards	Not classified as a health hazard.
Environmental hazards	Not classified for hazards to the environment.
Specific hazards	Not available.
Main symptoms	Not available.
2.2. Label elements	
Label according to Directive 6	7/548/EEC or 1999/45/EC as amended
Contains:	2-pyrrolidone, Acrylic-Styrene Polymer, Blue colorant, Substituted diol, Water
R-phrase(s)	Not available.
S-phrase(s)	Not available.
Authorization number	Not available.
Supplemental label information	Not applicable.
2.3. Other hazards	None of the components present in this formulation at concentrations equal to or greater than 0.1% are listed by EU, MAK, IARC, NTP or OSHA. This blue ink is not classified according to EU Directive 1999/45/EC. Potential routes of overexposure to this product are skin and eye contact Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions. Complete toxicity data are not available for this specific formulation

# SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

2. Mixtures							
eneral information Chemical name			%	CAS-No. / EC No. R	EACH Registration No.	Index No. No	otes
Water			>70	7732-18-5 231-791-2	-	-	
Classification:	DSD:	-					
	CLP:	-					
2-pyrrolidone			<20	616-45-5 210-483-1	-	-	
Classification:	DSD:	Xi;R36					
	CLP:	Eye Irrit	. 2;H31	9			
Substituted diol			<10	Proprietary	-	-	
Classification:	DSD:	-					
	CLP:	-					
Acrylic-Styrene Polymer			<2.5	N/A	-	-	
Classification:	DSD:	-					
	CLP:	-					
Blue colorant			<1	Proprietary	-	-	
Classification:	DSD:	-					
	CLP:	-					
omposition comments	] I	his produ 999/45/E	ict has C, as a	mended.	ormulation. teria specified in the EU I ned in this Section, see Se		anc
ECTION 4: First aid me	easure	s					
eneral information	1	lot availat	ole.				
1. Description of first ai	d meas	ures					
Inhalation				air. If symptoms persist,	-		
Skin contact		Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.					
Eye contact		Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for a least 15 minutes or until particles are removed. If irritation persists get medical attention.					
Ingestion	I	f ingestior	n of a l	arge amount does occur,	, seek medical attention.		
2. Most important mptoms and effects, bo ute and delayed		lot availat	ole.				

No notes to physicians.

Dry chemical, CO2, water spray or regular foam.

Not available.

4.3. Indication of any

**General fire hazards** 

media

5.1. Extinguishing media Suitable extinguishing

needed

immediate medical attention and special treatment

**SECTION 5: Firefighting measures** 

Unsufable extinguishing media         None known.           5.2. Special hazards arising from the subschore or mixture         Not available.           5.3. Advice for finefighters equipment for righters         Not available.           Special infree fighting procedures         Not available.           Special infree fighting procedures         Not available.           For non-emergency personnel         Wear appropriate personal protective equipment.           For on-emergency responders         Not available.           5.2. Environmental procedures         Do not let product enter drains. Do not flush into surface water or sanitary sever system.           SJ. Methods and material for ocitalisment and cleaning up or distomaceous earth, commercial sorbents, or recover using pumps.         So wide doct and material for or water disposal, see section 13 of the MSDS.           SECTION 7: Handling and storge         For water disposal, see section 13 of the MSDS.           SECTION 7: Handling wear optic personal protection         So available.           7.3. Departed the subschere of the reach of children.         storage, including any keep out of the reach of children.           storage, including any experimenters         Not available.           SECTION 8: Exposure controls/personal protection         So available.           SECTION 8: Exposure controls         Not available.           Section and exposure linits         Not available.		
from the substance or mixture 5.3. Advice for firefighters Special protective Special protective Special protective Special information Special in		None known.
Special protective equipment for refighters         Not available.           Special fire fighting         Wear approtate personal protective equipment.           For non-emergency personnel         Wear appropriate personal protective equipment.           For emergency responders         Not available.           6.3. Methods and material for containment and cleaning up or distomacous earth, commercial sorberts, or recover using pumps.           6.4. Reference to other         For waste disposal, see section 13 of the MSDS.           SECTION 7: Handling and storage         Avaid contact with skin, eyes and cothing.           7.1. Precautions for safe keep out of the reach of children.         Keep avay from excessive heat or cold.           7.3. Specific end use(s)         Not available.           SECTION 8: Exposure controls/personal protection         Sections           8.1. Control parameters         No exposure limits noted for ingredient(s).           Biological infur values         No exposure limits noted for the ingredient(s).           Biological infur values         Not available.           Preventional exposure limits         Not available.           Proventional engineering         Not available. <td< th=""><th>from the substance or</th><th>Not available.</th></td<>	from the substance or	Not available.
equipment for firefighters         Not available.           Special fire fighting procedures         Not available.           For non-emergency personal procedures         Wear appropriate personal protective equipment.           For non-emergency personnel         Wear appropriate personal protective equipment.           For emergency responders         Not available.           6.2. Environmental precautions         Do not let product enter drains. Do not flush into surface water or sanitary sever system.           6.3. Methods and material for containment and cleaning up or diatomaccous earth, commercial sorbents, or recover using pumps.         6.4. Reference to other sections           For waste disposal, see section 13 of the MSDS.         SECTION 7: Handling and storage           7.1. Precautions for safe sections         Avoid contact with skin, eyes and clothing.           Namiting 7.2. Conditions for safe shore using pumpt.         Not available.           SECTION 8: Exposure controls/personal protection         8.1.           8.1. Control parameters         No exposure limits noted for ingredient(s).           Biological limit values         No biological exposure limits noted for ingredient(s).           Biological limit values         No biological exposure limits noted for the ingredient(s).           Recommended monitoring procedures         Not available.           Predicted no effect concentrations (PNECs)         Not available.      <	5.3. Advice for firefighters	
Special fire fighting procedures         Not available.           SECTION 6: Accidental release measures         6.1. Personal precautions, protective equipment and emergency procedures for non-emergency personnel         Wear appropriate personal protective equipment.           For non-emergency personnel         Not available.         Not available.           Sections         Do not let product enter drains. Do not flush into surface water or sanitary sever system.           For emergency responders         Not available.           G.3. Methods and material for precautions         Do not let product enter drains. Do not flush into surface water or sanitary sever system.           6.3. Methods and material for precautions         Do not let product enter drains. Do not flush into surface water or sanitary sever system.           6.4. Reference to other sections         For waste disposal, see section 13 of the MSDS.           SECTION 7: Handling and storage         Avoid contact with skin, eyes and clothing.           7.1. Precautions for safe Avoid contact with skin, eyes and clothing.         Not available.           SECTION 8: Exposure controls/personal protection         Storage, including any Keep away from excessive heat or cold.           8.1. Control parameters         No exposure limits noted for ingredient(s).           Biological limit values         No biological exposure limits noted for ingredient(s).           Recommended monitoring Procedures         Not available. <t< th=""><th>equipment for</th><th>Not available.</th></t<>	equipment for	Not available.
6.1. Personal precautions, protective equipment and emergency procedures       For non-emergency personnal protective equipment. personal protective equipment. personnel         For emergency responders       Not available.         6.2. Environmental precautions       Do not let product enter drains. Do not flush into surface water or sanitary sewer system. precautions         6.3. Methods and material for containment and cleaning up containment and cleaning up or diatomaceous earth, commercial sorbents, or recover using pumps.         6.4. Reference to other sections       For waste disposal, see section 13 of the MSDS.         SECTION 7: Handling and storage       Avoid contact with skin, eyes and clothing. handling         7.1. Precautions for safe keep out of the reach of children. storage, including any keep away from excessive heat or cold.       Keep away from excessive heat or cold.         SECTION 8: Exposure controls/personal protection       8.1. Control parameters       No t available.         Secures       Not available.       Not available.       Not available.         Biological intiv values       No t available.       Not available.       Not available.         Precautions (PMECG)       Not available.       Not available.       Not available.         Sections       Not available.       Not available.       Not available.         Section on effect level Not available.       Not available.       Not available.         Predicted no effect Not	Special fire fighting	Not available.
For non-emergency personnel         Wear appropriate personal protective equipment.           For emergency responders         Not available.           6.2. Environmental precautions         Do not let product enter drains. Do not flush into surface water or sanitary sewer system.           6.3. Methods and material for precautions         Do not let product enter drains. Do not flush into surface water or sanitary sewer system.           6.3. Methods and material for protainment and cleaning up or distomaceous earth, commercial sobehst, or recover using pumps.         6.4. Reference to other socialized to a disposal, see section 13 of the MSDS.           SECTION 7: Handling and storage         For waste disposal, see section 13 of the MSDS.           SECTION 7: Handling and storage         Avoid contact with skin, eyes and clothing, handling           7.2. Conditions for safe handling         Keep out of the reach of children.           7.3. Specific end use(s)         Not available.           SECTION 8: Exposure controls/personal protection         8.1. Control parameters           Occupational exposure limits         No exposure limits noted for ingredient(s).           Biological limit values         No biological exposure limits noted for the ingredient(s).           Recommended monitoring procedures         Not available.           Derived no effect (ONEL)         Not available.           Sections (PNECs)         Not available.           Sections (PNECs)	SECTION 6: Accidental relea	ise measures
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responders       International Do not let product enter drains. Do not flush into surface water or sanitary sewer system. precautions         6.3. Methods and material for or diatomaceous earth, commercial sorbents, or recover using pumps.       6.4. Reference to other or diatomaceous earth, commercial sorbents, or recover using pumps.         6.4. Reference to other sections       Dive the spilled material, where this is possible. Absorb with inert absorbent such as dry day, sand or diatomaceous earth, commercial sorbents, or recover using pumps.         6.4. Reference to other sections       For waste disposal, see section 13 of the MSDS.         SECTION 7: Handling and storage       Avoid contact with skin, eyes and clothing. handling         Anadities       Avoid contact with skin, eyes and clothing. handling         Keep out of the reach of children.       Keep away from excessive heat or cold.         Korony Expection earth       Not available.         SECTION 8: Exposure controls/personal protection       S.1. Control parameters         Occupational exposure limits       No exposure limits noted for the ingredient(s).         Biological limit values       No biological exposure limits noted for the ingredient(s).         Biological limit values       Not available.         Procedures       Not available.         Perived no-effect level       Not available.         Ontrols       Not available.         Conconentrations (PNECs)       Not available.		Wear appropriate personal protective equipment.
precautions       Disk the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.         6.4. Reference to other sections       For waste disposal, see section 13 of the MSDS.         SECTION 7: Handling and storage       Avoid contact with skin, eyes and clothing. handling         7.1. Precautions for safe keep out of the reach of children.       Keep out of the reach of children.         storage, including any keep away from excessive heat or cold.       Keep out of the reach of children.         7.3. Specific end use(s)       Not available.         SECTION 8: Exposure controls/personal protection       8.1. Control parameters         Occupational exposure limits       No exposure limits noted for ingredient(s).         Biological limit values       No biological exposure limits noted for the ingredient(s).         Recommended monitoring procedures       Not available.         Derived no-effect level       Not available.         St.2. Exposure controls       Appropriate engineering controls         Appropriate engineering controls       Not available.         St. Exposure controls       Appropriate engineering controls         Individual protection measures, such as personal protective equipment       General information         Use personal protective equipment to minimize exposure to skin and eye.       Eye frace protection	5 /	Not available.
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SECTION 8: Exposure controls/personal protection         8.1. Control parameters         Occupational exposure limits       No exposure limits noted for ingredient(s).         Biological limit values       No biological exposure limits noted for the ingredient(s).         Recommended monitoring       Not available.         procedures       Not available.         Derived no-effect level (DNEL)       Not available.         Predicted no effect concentrations (PNECs)       Not available.         8.2. Exposure controls       Appropriate engineering controls         Appropriate engineering controls       Not available.         General information       Use personal protective equipment         General information       Use personal protective equipment to minimize exposure to skin and eye.         Eye/face protection       Not available.         Skin protection       Not available.         - Other       Not available.         - Other       Not available.         Respiratory protection       Not available.         - Other       Not available.         Respiratory protection       Not available.	storage, including any	
8.1. Control parameters       No exposure limits noted for ingredient(s).         Biological limit values       No biological exposure limits noted for the ingredient(s).         Recommended monitoring       Not available.         procedures       Not available.         Derived no-effect level       Not available.         roceurestores       Not available.         Prodicted no effect       Not available.         roceurestores       Not available.         Prodicted no effect       Not available.         statistications (PNECs)       Not available.         Report on the sequence of the engineering       Not available.         statistication of the engineering       Not available.         statistication       Sequence on the sequence of the engineering         general information       Use personal protective equipment         statistication       Sequence on the engineering         skin protection       Not available.         Skin protection       Not available.         skin protection       Not available.         other       Not available.         skin protection       Not available.         other       Not available.         skin protection       Not available.         other       Not available. <t< th=""><th>7.3. Specific end use(s)</th><th>Not available.</th></t<>	7.3. Specific end use(s)	Not available.
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Biological limit values       No biological exposure limits noted for the ingredient(s).         Recommended monitoring procedures       Not available.         Derived no-effect level (DNEL)       Not available.         Predicted no effect core trations (PNECs)       Not available.         8.2. Exposure controls       Not available.         Appropriate engineering controls       Not available.         General information       Use personal protective equipment         general information       Use personal protective equipment to minimize exposure to skin and eye.         Fye/face protection       Not available.         Skin protection       Not available.         in Hand protection       Not available.         in Que protection       Not available.         in Hand protection       Not available.         in Hand protection       Not available.         in Que protection       Not available.         in Que protection       Not available.         in Hand protection       Not available.         in Que protection       Not available.         in Hand protection       Not available.         in Que protection       Not available.         in Que protection       Not available.         in Hand protection       Not available.         in	-	No exposure limits noted for ingredient(s).
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Eye/face protectionNot available.Skin protectionNot available Hand protectionNot available OtherNot available.Respiratory protectionNot available.Thermal hazardsNot available.	Individual protection measure	s, such as personal protective equipment
Skin protectionNot available Hand protectionNot available OtherNot available.Respiratory protectionNot available.Thermal hazardsNot available.	General information	Use personal protective equipment to minimize exposure to skin and eye.
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- OtherNot available.Respiratory protectionNot available.Thermal hazardsNot available.	Skin protection	
Respiratory protectionNot available.Thermal hazardsNot available.	- Hand protection	Not available.
Thermal hazards     Not available.	- Other	Not available.
	<b>Respiratory protection</b>	Not available.
Hygiene measures Handle in accordance with good industrial hygiene and safety practice.	Thermal hazards	Not available.
	Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
SECTION 9: Physical and chemical properties		

9.1. Information on basic physical and chemical properties

# Appearance

Physical state	Liquid.
Form	Not available.
Color	Light Cyan
Odor	Not available.
Odor threshold	Not available.
рН	9
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	200.00 °F (93.33 °C) Pensky-Martens Closed Cup
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or e	xplosive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not applicable.
Relative density	Not available.
Solubility(ies)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Viscosity	Not applicable.
Explosive properties	Not available.
Oxidizing properties	Not determined
9.2. Other information	
VOC (Weight %)	254 g/l (Determined by EPA Method 24)
SECTION 10: Stability and re	eactivity
10.1. Reactivity	Not available.
10.2. Chemical stability	Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions	None known.
10.4. Conditions to avoid	Not available.
10.5. Incompatible materials	Incompatible with strong bases and oxidizing agents.
10.6. Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons., fluorinated hydrocarbons and hydrogen fluoride.
SECTION 11: Toxicological i	nformation
General information	Not available.
Information on likely routes of	exposure
Ingestion	Not available.

Information on likely re	outes of exposure		
Ingestion	Not available.		
Inhalation	Not available.		
Skin contact	Not available.		
Eye contact	Not available.		
Symptoms	Not available.		
11.1. Information on to	oxicological effects		
Acute toxicity	Not available.		
Components	Species	Test Results	
2-pyrrolidone (CAS 616-45	5-5)		
Acute			
Oral			
LD50	Guinea pig	6500 mg/kg	

Components	Species	Test Results	
	Rat	6500 mg/kg	
Substituted diol (CAS Proprietary)			
Acute			
Dermal			
LD50	Rabbit	> 2000 mg/kg	
Inhalation			
LC50	Rat	> 5.1 mg/l, 4 Hours	
Oral			
LD50	Rat	> 5000 mg/kg	
Skin corrosion/irritation	Not available.		
Serious eye damage/eye irritation	Not available.		
Respiratory sensitization	Not available.		
Skin sensitization	Not available.		
Germ cell mutagenicity	Not available.		
Carcinogenicity	None of the components present in 0.1% are listed by EU, MAK, IARC,	this formulation at concentrations equal to or greater than NTP or OSHA.	
Reproductive toxicity	Not available.		
Specific target organ toxicity - single exposure	Not available.		
Specific target organ toxicity - repeated exposure	Not available.		
Aspiration hazard	Not available.		
Mixture versus substance information	Not available.		
Other information	This ink formulation has not been tested for toxicological effects. Refer to Section 2 for potential health effects and Section 4 for first aid measures.		

No information available.		
Species	Test Results	
Fathead minnow (Pimer	ohales promelas) > 750 mg/l, 96 hours	
Species	Test Results	
Water flea (Daphnia pul	ex) 13.21 mg/l, 48 hours	
vailable.		
vailable.		
-0.85		
vailable.		
vailable.		
PBT or vPvB substance or mixture	e.	
vailable.		
`	vailable. PBT or vPvB substance or mixture vailable. ons	

# 13.1. Waste treatment methods

Residual waste Contaminated packaging	Not available. Not available.
EU waste code	Not available.
Disposal methods/information	Dispose of in compliance with federal, state, and local regulations. HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit http://www.hp.com/recycle.

### SECTION 14: Transport information

## ADR

Not regulated as dangerous goods.

# RID

Not regulated as dangerous goods.

#### ADN

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### **EU** regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended** Not listed.

### Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA Not listed.

### Authorizations

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization Not listed.

### **Restrictions on use**

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

Other EU regulations	
-	so II) on the control of major-accident hazards involving dangerous substances
Not regulated.	
agents at work	protection of the health and safety of workers from the risks related to chemical
Not regulated. Directive 94/33/EC on the	protection of young people at work
Not regulated.	
Other regulations	All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.
National regulations	Not available.
15.2. Chemical Safety Assessment	Not available.
SECTION 16: Other information	tion
References	Not available.
Full text of any statements or R-phrases and H-statements under Sections 2 to 15	R36 Irritating to eyes.
	H319 Causes serious eye irritation.
Revision information	Ecological Information: Ecotoxicity SECTION 12: Ecological information: Aquatic toxicity
Training information	Not available.
Disclaimer	This Safety Data Sheet document is provided without charge to customers of Hewlett-Packarc Company. Data is the most current known to Hewlett-Packard Company at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.
Manufacturer information	Hewlett-Packard Company 3000 Hanover Street Palo Alto, California 94304-1112 US (Direct) 1-503-494-7199 (Toll-free within the US) 1-800-457-4209
Explanation of abbreviations	
ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Cleveland Open Cup
DOT	Department of Transportation
EPCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
REC	Recommended
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act of 1986
STEL	Short-Term Exposure Limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds
Material name: CN700Series	