C4900Series[B][2]-SDS\_US-English-34.pdf

C4900Series[Y][2]-SDS\_US-English-17.pdf



# **SAFETY DATA SHEET**

## 1. Identification

Product identifier	C4900Series[B][2]
Other means of identification	Not available.
Recommended use	Inkjet printing
<b>Recommended restrictions</b>	None known.
Company identification	HP 1501 Page Mill Road Palo Alto, CA 94304-1112 United States Telephone 650-857-5020
	HP health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-760-710-0048 HP Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com

### 2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	Not available.
Precautionary statement	
Prevention	Not available.
Response	Not available.
Storage	Not available.
Disposal	Not available.
Hazard(s) not otherwise classified (HNOC)	Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA. 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.
Supplemental information	This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).

## **3.** Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	70-80
2-pyrrolidone		616-45-5	< 20
Modified carbon black 11		Proprietary	<5

5. Fire-fighting measures		
Most important symptoms/effects, acute and delayed	Not available.	
Ingestion	If ingestion of a large amount does occur, seek medical attention.	
Eye contact	Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention.	
Skin contact	Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.	
Inhalation	Move to fresh air. If symptoms persist, get medical attention.	
4. First-aid measures		
	Communication Standard). Carbon black is present only in a bound form in this preparation.	
Composition comments	This ink supply contains an aqueous ink formulation. This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard	

#### Suitable extinguishing media CO2, water, dry chemical, or foam For small (incipient) fires, use media such as foam, sand, dry chemical, or carbon dioxide. For large fires use very large (flooding) quantities of water and/or foam, applied as a mist or spray. Unsuitable extinguishing None known. media Specific hazards arising from Not applicable. the chemical Special protective equipment Not available. and precautions for firefighters Specific methods None established.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear appropriate personal protective equipment.
Methods and materials for containment and cleaning up	Dike 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.
Environmental precautions	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
7 Handling and storage	

#### 7. Handling and storage

Precautions for safe handling	Avoid contact with skin, eyes and clothing.
Conditions for safe storage, including any incompatibilities	Keep out of the reach of children. Keep away from excessive heat or cold.

### 8. Exposure controls/personal protection

Occupational exposure limits Biological limit values Exposure guidelines Appropriate engineering	No exposure limits noted for ingredient(s). No biological exposure limits noted for the ingredient(s). Exposure limits have not been established for this product. Use in a well ventilated area.
controls	
Individual protection measure	s, such as personal protective equipment
Eye/face protection	Not available.
Skin protection	
Hand protection	Not available.
Other	Not available.
<b>Respiratory protection</b>	Not available.
Thermal hazards	Not available.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and chemical properties

AppearancePhysical stateNot available.ColorBlack. or Dark GreyOdorNot available.Odor thresholdNot available.pH9.3 - 9.7Melting point/freezing pointNot available.Initial boiling point and boiling rangeNot determinedFlash point>= 200.0 °F (>= 93.3 °C) Setaflash Closed TesterFlash pointNot determinedFlash point rateNot available.Upper/lower flammability umit - low is Not determinedNot available.flammability limit - lower (%)Not available.flammability limit - lower (%)<	5. Physical and chemical p	properties
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Odor thresholdNot available.pH9.3 - 9.7Melting point/freezing pointNot available.Initial boiling point and boiling rangeNot determinedFlash point>= 200.0 °F (>= 93.3 °C) Setaflash Closed TesterEvaporation rateNot determinedFlammability (solid, gas)Not available.Upper/lower flammability or>>lost varilable.flammability limit - lower (%)Not available.Flammability limit - lower (%)Not available.flammability limit - lower (%)Not available.flammability limit - lower (%)Not available.Vapor pressureNot available.Vapor pressureNot determinedSolubility(ies)Soluble in waterPartition coefficientNot available.	Color	Black. or Dark Grey
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Solubility(ies)       Solubility (water)       Soluble in water       Partition coefficient       Not available.		Not available.
Solubility (water)Soluble in waterPartition coefficientNot available.	Vapor pressure	Not determined
Partition coefficient Not available.	Solubility(ies)	
	Solubility (water)	Soluble in water
(in octation/water)	Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature Not available.	Auto-ignition temperature	Not available.
Decomposition temperature Not available.	Decomposition temperature	Not available.
Viscosity >= 2 cp	Viscosity	>= 2 cp
<b>Other information</b> For other VOC regulatory data/information see Section 15.	Other information	For other VOC regulatory data/information see Section 15.
<b>VOC (Weight %)</b> < 182 g/l	VOC (Weight %)	< 182 g/l

## 10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Will not occur.
Conditions to avoid	Not available.
Incompatible materials	Incompatible with strong bases and oxidizing agents.
Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

## **11.** Toxicological information

Symptoms related to the Not available. physical, chemical and toxicological characteristics

#### Information on toxicological effects

ed on available data, the classification criteria are not met.
ed on available data, the classification criteria are not met.
ed on available data, the classification criteria are not met.
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Respiratory or skin sensitization			
<b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met.		
Skin sensitization	Based on available data, the classification criteria are not met.		
Germ cell mutagenicity	Based on available data, the classificatio	n criteria are not met.	
Carcinogenicity	Based on available data, the classificatio	n criteria are not met.	
	2B) and by the State of California under organizations indicate that exposure to o	n by the IARC (possibly carcinogenic to humans, Group Proposition 65. In their evaluations of carbon black, both carbon black, per se, does not occur when it remains Ily, rubber, ink, or paint. Carbon black is present only in a	
Reproductive toxicity	Based on available data, the classificatio	n criteria are not met.	
Specific target organ toxicity - single exposure	Based on available data, the classificatio	n criteria are not met.	
Specific target organ toxicity - repeated exposure	Based on available data, the classificatio	n criteria are not met.	
Aspiration hazard	Based on available data, the classification criteria are not met.		
Further information	Complete toxicity data are not available for this specific formulation Refer to Section 2 for potential health effects and Section 4 for first aid measures.		
Components	Species	Test Results	
2-pyrrolidone (CAS 616-45-5)			
Acute			
Oral			
LD50	Guinea pig	6500 mg/kg	
	Rat	6500 mg/kg	

## 12. Ecological information

Aquatic toxicity	This product has not been tested for ecological effects.		
Ecotoxicity			
Components		Species	Test Results
2-pyrrolidone (CAS 616-45-5)	)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	13.21 mg/l, 48 hours
Persistence and degradability	Not available.		
<b>Bioaccumulative potential</b>	Not available.		
Partition coefficient n-octanol / water (log Kow) 2-pyrrolidone -0.85			
Mobility in soil	Not available.		
Other adverse effects	Not available.		

## **13.** Disposal considerations

Disposal instructions	Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.
	Ensure collection and disposal with an appropriately licensed waste contractor. 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.

## 14. Transport information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

#### ADR

Not regulated as dangerous goods.

Further information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

### 15. Regulatory information

US TSCA 12(b): Does not contain listed chemicals.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazar	dous substance
Not listed.	
SARA 311/312 Hazardous chemical	No
Other federal regulations Safe Drinking Water Act (SDWA)	Not regulated.

#### US state regulations

#### **US. Massachusetts RTK - Substance List**

2-pyrrolidone (CAS 616-45-5)

US. Pennsylvania Worker and Community Right-to-Know Law

2-pyrrolidone (CAS 616-45-5)

#### **US. California Proposition 65**

Not Listed.

Other informationVOC content (less water, less exempt compounds) = <621 g/L (U.S. requirement, not for emissions<br/>) VOC data based on formulation (Organic compounds minus solids)Regulatory informationAll chemical substances in this HP product have been notified or are exempt from notification under<br/>chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS),<br/>Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and

## China.

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

Issue date Revision date Version #	08-Apr-2015 10-Oct-2015 03
Disclaimer	This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP 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	HP 1501 Page Mill Road Palo Alto, CA 94304-1112 US Direct 1-650-857-5020

### **Explanation of abbreviations**

ACGIH CAS CERCLA CFR COC DOT EPCRA IARC NIOSH NTP OSHA PEL RCRA REC REL SARA	American Conference of Governmental Industrial Hygienists Chemical Abstracts Service Comprehensive Environmental Response Compensation and Liability Act Code of Federal Regulations Cleveland Open Cup Department of Transportation Emergency Planning and Community Right-to-Know Act (aka SARA) International Agency for Research on Cancer National Institute for Occupational Safety and Health National Toxicology Program Occupational Safety and Health Administration Permissible Exposure Limit Resource Conservation and Recovery Act Recommended Recommended Exposure Limit Superfund Amendments and Reauthorization Act of 1986
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



# **SAFETY DATA SHEET**

## 1. Identification

Product identifier	C4900Series[Y][2]
Other means of identification	Not available.
Recommended use	Inkjet printing
<b>Recommended restrictions</b>	None known.
Company identification	HP 1501 Page Mill Road Palo Alto, CA 94304-1112 United States Telephone 650-857-5020 HP health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-760-710-0048 HP Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com

## 2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	Not available.
Precautionary statement	
Prevention	Not available.
Response	Not available.
Storage	Not available.
Disposal	Not available.
Hazard(s) not otherwise classified (HNOC)	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.
Supplemental information	This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).

### 3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	70-85
1-(2-hydroxyethyl)-2-pyrroli	done	3445-11-2	< 10
2-pyrrolidone		616-45-5	< 7.5
Yellow pigment		Proprietary	< 5
Composition comments	This ink supply contains an aqueous ink formulat	ion.	

This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).

4. First-aid measures	
Inhalation	Move to fresh air. If symptoms persist, get medical attention.
Skin contact	Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.
Eye contact	Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention.
Ingestion	If ingestion of a large amount does occur, seek medical attention.
Most important symptoms/effects, acute and delayed	Not available.

## 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media	CO2, water, dry chemical, or foam None known.
Specific hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Not available.
Specific methods	Wear self contained breathing apparatus for fire fighting if necessary.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear appropriate personal protective equipment.
Methods and materials for containment and cleaning up	Dike 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.
Environmental precautions	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

## 7. Handling and storage

Precautions for safe handling	Avoid contact with skin, eyes and clothing.
Conditions for safe storage, including any incompatibilities	Keep out of the reach of children. Keep away from excessive heat or cold.

## 8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	Exposure limits have not been established for this product.
Appropriate engineering controls	Use in a well ventilated area.
Individual protection measure	s, such as personal protective equipment
Eye/face protection	Not available.
Skin protection	
Hand protection	Not available.
Other	Not available.
Respiratory protection	Not available.
Thermal hazards	Not available.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

#### Appearance

Physical state	Liquid.
Color	Yellow

Odor	Not available.
Odor threshold	Not available.
рН	8.7 - 9.1
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not determined
Flash point	> 200.0 °F (> 93.3 °C) Setaflash Closed Cup
Evaporation rate	Not determined
Flammability (solid, gas)	Not available.
Upper/lower flammability or e	xplosive limits
Flammability limit - lower (%)	Not determined
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not determined
Solubility(ies)	
Solubility (water)	Soluble in water
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not determined
Decomposition temperature	Not available.
Viscosity	>= 3 cP
Other information	For other VOC regulatory data/information see Section 15.
VOC (Weight %)	< 313 g/l
10 Chability and use stini	

## 10. Stability and reactivity

Reactivity Chemical stability Possibility of hazardous	Not available. Stable under recommended storage conditions. Will not occur.
reactions	
Conditions to avoid	Not available.
Incompatible materials	Incompatible with strong bases and oxidizing agents.
Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Decomposition of this product may yield oxides of phosphorus. hydrogen fluoride fluorinated hydrocarbons

## **11.** Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics	Not available.	
Information on toxicological e	ffects	
Acute toxicity	Based on available data, the classification criteria are not met.	
Skin corrosion/irritation	Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.	
Respiratory or skin sensitization		
Respiratory sensitization	Based on available data, the classification criteria are not met.	
Skin sensitization	Based on available data, the classification criteria are not met.	

Carcinogenicity       Based on available data, the classification criteria are not met.         Reproductive toxicity       Based on available data, the classification criteria are not met.         Specific target organ toxicity       Based on available data, the classification criteria are not met.         - single exposure       Based on available data, the classification criteria are not met.         - repeated exposure       Based on available data, the classification criteria are not met.         - repeated exposure       Based on available data, the classification criteria are not met.         - repeated exposure       Based on available data, the classification criteria are not met.         - repeated exposure       Complete toxicity data are not available for this specific formulation Refer to Section 2 for potential health effects and Section 4 for first aid measures.         Components       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Acute       Acute         Aquatic toxicity       This product has not been tested for ecological effects.         Ecotoxicity       Components       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic       Crustacea       EC50       Water flea (Daphnia pulex)       13.21 mg/l, 48 hours         Persistence and degradability       Not available.       -0.85       Species       Test Results         2-pyrrolidone </th <th></th> <th></th> <th></th> <th></th>				
Reproductive toxicity       Based on available data, the classification criteria are not met.         Specific target organ toxicity       Based on available data, the classification criteria are not met.         - single exposure       Based on available data, the classification criteria are not met.         - repeated deposure       Based on available data, the classification criteria are not met.         - repeated deposure       Based on available data, the classification criteria are not met.         - repeated deposure       Specific Tripped dom deposure         Aspiration hazard       Based on available data, the classification criteria are not met.         Further information       Complete toxicity data are not available for this specific formulation measures.         Components       Species       Test Results         2-pyrorlidone (CAS 616-45-5)       Acute       Goal (CAS 616-45-5)         Aquatic       Species       Test Results         2-pyrorlidone (CAS 616-45-5)       Aquatic       Constacea         2-pyrorlidone (CAS 616-45-5)       Aquatic       Not available.         0-persistence and degradability       Not available.       Not available.         0-persistence and degradability       Not available.       Outpression available.         0-persistence and degradability       Not available.       Outpression available.         0-ther adverse eff	Germ cell mutagenicity	Based on available data, the	classification criteria are	not met.
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<ul> <li>- single exposure</li> <li>- single exposure</li> <li>- Based on available data, the classification criteria are not met.</li> <li>- repeated exposure</li> <li>Aspiration hazard</li> <li>Based on available data, the classification criteria are not met.</li> <li>- Further information</li> <li>- Complete toxicity data are not available of this specific formulation Refer to Section 2 for potential health effects and Section 4 for first aid measures.</li> <li>- Components</li> <li>- Species</li> <li>- Test Results</li> <li>- Prymolidone (CAS 616-45-5)</li> <li>- Acute Oral</li> <li>- LOSO</li> <li>- Guinea pig</li> <li>- Good marks</li> <li>- Species</li> <li>- Test Results</li> <li>- Components</li> <li>- Species</li> <li>- Test Results</li> <li>- Constance</li> <li>- Components</li> <li>- Species</li> <li>- Test Results</li> <li>- Constance</li> <li>- Components</li> <li>- Species</li> <li>- Test Results</li> <li>- Constance</li> <li>- Const</li></ul>	Reproductive toxicity	Based on available data, the	classification criteria are	not met.
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TSCA Section 12(b) Expor	t Notification (40 CFR 707, Subpt. D)
Not regulated.	
CERCLA Hazardous Substa	ance List (40 CFR 302.4)
Not listed. SARA 304 Emergency rele	ase notification
Not regulated. OSHA Specifically Regulat	red Substances (29 CFR 1910.1001-1050)
Not listed.	
•	Reauthorization Act of 1986 (SARA)
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely haza Not listed.	rdous substance
SARA 311/312 Hazardous chemical	No
Other federal regulations Safe Drinking Water Act (SDWA)	Not regulated.
US state regulations	
US. Massachusetts RTK - S	Substance List
2-pyrrolidone (CAS 616-4 US. New Jersey Worker ar	45-5) nd Community Right-to-Know Act
-	and Community Right-to-Know Law
2-pyrrolidone (CAS 616-4 US. Rhode Island RTK	+5-5)
Not regulated.	
US. California Proposition Not Listed.	65
Other information	VOC content (less water, less exempt compounds) = $<1176$ g/L (U.S. requirement, not for emissions) VOC data based on formulation (Organic compounds minus solids)
Regulatory information	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.
16. Other information, in	ncluding date of preparation or last revision
Issue date	09-Apr-2015
Revision date	10-Oct-2015
Version #	03
Disclaimer	This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP 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	HP 1501 Page Mill Road Palo Alto, CA 94304-1112 US Direct 1-650-857-5020

#### 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