



# SAFETY DATA SHEET

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

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### 1.1. Product identifier

**Trade name or designation of the mixture** CN945 Series  
**Registration number** -  
**Synonyms** HP Scitex XL300 Supreme Light Black Ink  
**Issue date** 25-Jun-2016  
**Version number** 04  
**Revision date** 13-Dec-2019  
**Supersedes date** 17-Aug-2018

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Inkjet printing.  
**Uses advised against** None known.

### 1.3. Details of the supplier of the safety data sheet

HP Deutschland GmbH  
Schickardstrasse 32  
71034 Böblingen  
Germany

### Telephone

### HP Inc. health effect line

**(Toll-free within US)** 1-800-457-4209  
**(Direct)** 1-760-710-0048

### HP Inc. Customer Care Line

**(Toll-free within the US)** 1-800-474-6836  
**(Direct)** 1-208-323-2551  
**Email:** hpcustomer.inquiries@hp.com

**1.4 Emergency telephone number** 1-760-710-0048

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 as amended

#### Health hazards

Acute toxicity, dermal	Category 4	H312 - Harmful in contact with skin.
Acute toxicity, inhalation	Category 4	H332 - Harmful if inhaled.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.

### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** 2-butoxyethyl acetate, 2-methoxy-1-methylethyl acetate, Cyclohexanone

#### Hazard pictograms



**Signal word** Danger

#### Hazard statements

H312 Harmful in contact with skin.

H332  
H318

Harmful if inhaled.  
Causes serious eye damage.

## Precautionary statements

### Prevention

P280  
P261  
P271

Wear protective gloves/protective clothing/eye protection/face protection.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Use only outdoors or in a well-ventilated area.

### Response

P302 + P352  
P305 + P351 + P338  
  
P310  
P304 + P340  
P312  
P362 + P364

IF ON SKIN: Wash with plenty of soap and water.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER/doctor.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Call a poison center/doctor if you feel unwell.  
Take off contaminated clothing and wash it before reuse.

### Storage

Not available.

### Disposal

P501

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

Supplemental label information None.

2.3. Other hazards Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalation.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
2-butoxyethyl acetate	<70	112-07-2 203-933-3	01-2119475112-47-XXXX	607-038-00-2	#
<b>Classification:</b>	Acute Tox. 4;H302, Acute Tox. 4;H312, Acute Tox. 4;H332				
2-methoxy-1-methylethyl acetate	<15	108-65-6 203-603-9	01-2119475791-29-XXXX	607-195-00-7	#
<b>Classification:</b>	Flam. Liq. 3;H226, STOT SE 3;H336				
Cyclohexanone	<10	108-94-1 203-631-1	01-2119453616-35-XXXX	606-010-00-7	#
<b>Classification:</b>	Flam. Liq. 3;H226, Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Irrit. 2;H315, Eye Dam. 1;H318, Acute Tox. 4;H332				

Composition comments Carbon black is present only in a bound form in this preparation.

## SECTION 4: First aid measures

General information Not available.

### 4.1. Description of first aid measures

#### Inhalation

Move person to fresh air immediately.  
If symptoms persist, get immediate medical attention.

#### Skin contact

In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Wash clothing separately before reuse.  
Get medical attention, if needed.

#### Eye contact

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Get medical attention immediately.

#### Ingestion

Rinse mouth out with water. If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Never give anything by mouth to an unconscious person.  
Get medical attention immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

Not available.

### 4.3. Indication of any immediate medical attention and special treatment needed

Not available.

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## SECTION 5: Firefighting measures

<b>General fire hazards</b>	Not available.
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Suitable extinguishing media: sand, carbon dioxide (CO <sub>2</sub> ), and dry chemical.
<b>Unsuitable extinguishing media</b>	Not available.
<b>5.2. Special hazards arising from the substance or mixture</b>	Not available.
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus. Avoid runoff into storm sewers and ditches which lead to waterways.
<b>Special fire fighting procedures</b>	Move containers from fire area if you can do it without risk.

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## SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	Avoid contact with skin. Avoid inhalation of vapors or mists. Do not touch or walk through spilled material. Ensure adequate ventilation. Remove all sources of ignition. Use personal protective equipment to minimize exposure to skin and eye. In the case of vapor formation use a respirator with an approved filter.
<b>For emergency responders</b>	Not available.
<b>6.2. Environmental precautions</b>	Do not flush into surface water or sanitary sewer system.
<b>6.3. Methods and material for containment and cleaning up</b>	Not available.
<b>6.4. Reference to other sections</b>	Not available.

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## SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Wear personal protective equipment.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame.
<b>7.3. Specific end use(s)</b>	Not available.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	MAK	133 mg/m <sup>3</sup>
		20 ppm
	STEL	270 mg/m <sup>3</sup> 40 ppm
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	Ceiling	550 mg/m <sup>3</sup>
		100 ppm
	MAK	275 mg/m <sup>3</sup> 50 ppm
Cyclohexanone (CAS 108-94-1)	MAK	20 mg/m <sup>3</sup>
		5 ppm
	STEL	80 mg/m <sup>3</sup> 20 ppm

##### Belgium. Exposure Limit Values.

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m <sup>3</sup>

**Belgium. Exposure Limit Values.**

Components	Type	Value
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	TWA	50 ppm
		133 mg/m3
	STEL	20 ppm
		550 mg/m3
Cyclohexanone (CAS 108-94-1)	TWA	100 ppm
		275 mg/m3
	STEL	50 ppm
		81.6 mg/m3
TWA	20 ppm	
	40.8 mg/m3	
	10 ppm	

**Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m3
	TWA	50 ppm 133 mg/m3 20 ppm
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	STEL	550 mg/m3
	TWA	100 ppm 275 mg/m3 50 ppm
Cyclohexanone (CAS 108-94-1)	STEL	81.6 mg/m3
	TWA	20 ppm
		40.8 mg/m3 10 ppm

**Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	MAC	133 mg/m3
	STEL	20 ppm
		333 mg/m3 50 ppm
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	MAC	275 mg/m3
	STEL	50 ppm 550 mg/m3 100 ppm
Cyclohexanone (CAS 108-94-1)	MAC	40.8 mg/m3
	STEL	10 ppm
		81.6 mg/m3 20 ppm

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	Ceiling	300 mg/m3
	TWA	130 mg/m3
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	Ceiling	550 mg/m3
	TWA	270 mg/m3
Cyclohexanone (CAS 108-94-1)	Ceiling	80 mg/m3
	TWA	40 mg/m3

**Denmark. Exposure Limit Values**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	TLV	134 mg/m3
		20 ppm
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	TLV	275 mg/m3
		50 ppm
Cyclohexanone (CAS 108-94-1)	TLV	41 mg/m3
		10 ppm

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m3
		50 ppm
	TWA	133 mg/m3
Propylene glycol monomethyl ether acetate (CAS 108-65-6)		20 ppm
	STEL	550 mg/m3
		100 ppm
Cyclohexanone (CAS 108-94-1)	TWA	275 mg/m3
		50 ppm
	STEL	81.6 mg/m3
		20 ppm
	TWA	40.8 mg/m3
		10 ppm

**Finland. Workplace Exposure Limits**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	STEL	330 mg/m3
		50 ppm
	TWA	130 mg/m3
Propylene glycol monomethyl ether acetate (CAS 108-65-6)		20 ppm
	STEL	550 mg/m3
		100 ppm
Cyclohexanone (CAS 108-94-1)	TWA	270 mg/m3
		50 ppm
	STEL	82 mg/m3
		20 ppm
	TWA	41 mg/m3
		10 ppm

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	VLE	333 mg/m3
		50 ppm
	VME	66.5 mg/m3
Propylene glycol monomethyl ether acetate (CAS 108-65-6)		10 ppm
	VLE	550 mg/m3
		110 ppm
Cyclohexanone (CAS 108-94-1)	VME	275 mg/m3
		50 ppm
	VLE	81.6 mg/m3
		20 ppm

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value
	VME	40.8 mg/m3 10 ppm

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

Components	Type	Value	Form
2-butoxyethyl acetate (CAS 112-07-2)	TWA	66 mg/m3	Vapor and aerosol.
		10 ppm	Vapor and aerosol.
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	TWA	270 mg/m3	
		50 ppm	

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

Components	Type	Value	Form
2-butoxyethyl acetate (CAS 112-07-2)	AGW	130 mg/m3	Vapor and aerosol.
		20 ppm	Vapor and aerosol.
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	AGW	270 mg/m3	
		50 ppm	
Cyclohexanone (CAS 108-94-1)	AGW	80 mg/m3	
		20 ppm	

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	STEL	270 mg/m3
	TWA	40 ppm 135 mg/m3
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	STEL	20 ppm 550 mg/m3
	TWA	100 ppm 275 mg/m3
Cyclohexanone (CAS 108-94-1)	STEL	50 ppm 400 mg/m3
	TWA	100 ppm 200 mg/m3 50 ppm

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m3
	TWA	133 mg/m3
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	STEL	550 mg/m3
	TWA	275 mg/m3
Cyclohexanone (CAS 108-94-1)	STEL	81.6 mg/m3
	TWA	40.8 mg/m3

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m3
	TWA	50 ppm 133 mg/m3 20 ppm

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	STEL	550 mg/m <sup>3</sup>
	TWA	100 ppm 275 mg/m <sup>3</sup> 50 ppm
Cyclohexanone (CAS 108-94-1)	STEL	81.6 mg/m <sup>3</sup>
	TWA	20 ppm 40 mg/m <sup>3</sup> 10 ppm

**Ireland. Occupational Exposure Limits**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m <sup>3</sup>
	TWA	50 ppm 133 mg/m <sup>3</sup> 20 ppm
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	STEL	550 mg/m <sup>3</sup>
	TWA	100 ppm 275 mg/m <sup>3</sup> 50 ppm
Cyclohexanone (CAS 108-94-1)	STEL	81.6 mg/m <sup>3</sup>
	TWA	20 ppm 40.8 mg/m <sup>3</sup> 10 ppm

**Italy. Occupational Exposure Limits**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m <sup>3</sup>
	TWA	50 ppm 133 mg/m <sup>3</sup> 20 ppm
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	STEL	550 mg/m <sup>3</sup>
	TWA	100 ppm 275 mg/m <sup>3</sup> 50 ppm
Cyclohexanone (CAS 108-94-1)	STEL	81.6 mg/m <sup>3</sup>
	TWA	20 ppm 40.8 mg/m <sup>3</sup> 10 ppm

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m <sup>3</sup>
	TWA	50 ppm 133 mg/m <sup>3</sup> 20 ppm
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	STEL	550 mg/m <sup>3</sup>
	TWA	100 ppm 275 mg/m <sup>3</sup> 50 ppm
Cyclohexanone (CAS 108-94-1)	STEL	81.6 mg/m <sup>3</sup>
		20 ppm

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

Components	Type	Value
	TWA	40.8 mg/m <sup>3</sup> 10 ppm

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	STEL	140 mg/m <sup>3</sup> 20 ppm
	TWA	70 mg/m <sup>3</sup> 10 ppm
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	STEL	400 mg/m <sup>3</sup> 75 ppm
	TWA	250 mg/m <sup>3</sup> 50 ppm
Cyclohexanone (CAS 108-94-1)	STEL	81.6 mg/m <sup>3</sup> 20 ppm
	TWA	40.8 mg/m <sup>3</sup> 10 ppm

**Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m <sup>3</sup> 50 ppm
	TWA	133 mg/m <sup>3</sup> 20 ppm
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	STEL	550 mg/m <sup>3</sup> 100 ppm
	TWA	275 mg/m <sup>3</sup> 50 ppm
Cyclohexanone (CAS 108-94-1)	STEL	81.6 mg/m <sup>3</sup> 20 ppm
	TWA	40.8 mg/m <sup>3</sup> 10 ppm

**Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m <sup>3</sup> 50 ppm
	TWA	133 mg/m <sup>3</sup> 20 ppm
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	STEL	550 mg/m <sup>3</sup> 100 ppm
	TWA	275 mg/m <sup>3</sup> 50 ppm
Cyclohexanone (CAS 108-94-1)	STEL	81.6 mg/m <sup>3</sup> 20 ppm
	TWA	40.8 mg/m <sup>3</sup> 10 ppm

**Netherlands. OELs (binding)**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m <sup>3</sup>
	TWA	135 mg/m <sup>3</sup>



**Netherlands. OELs (binding)**

Components	Type	Value
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	TWA	550 mg/m <sup>3</sup>
Cyclohexanone (CAS 108-94-1)	STEL	50 mg/m <sup>3</sup>

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	TLV	65 mg/m <sup>3</sup>
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	TLV	10 ppm 270 mg/m <sup>3</sup>
Cyclohexanone (CAS 108-94-1)	STEL	50 ppm 80 mg/m <sup>3</sup>
	TLV	20 ppm 40 mg/m <sup>3</sup> 10 ppm

**Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	STEL	300 mg/m <sup>3</sup>
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	TWA	100 mg/m <sup>3</sup>
	STEL	520 mg/m <sup>3</sup>
Cyclohexanone (CAS 108-94-1)	TWA	260 mg/m <sup>3</sup>
	STEL	80 mg/m <sup>3</sup>
	TWA	40 mg/m <sup>3</sup>

**Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m <sup>3</sup>
	TWA	50 ppm 133 mg/m <sup>3</sup> 20 ppm
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	STEL	550 mg/m <sup>3</sup>
	TWA	100 ppm 275 mg/m <sup>3</sup> 50 ppm
Cyclohexanone (CAS 108-94-1)	STEL	81.6 mg/m <sup>3</sup>
	TWA	20 ppm 40.8 mg/m <sup>3</sup> 10 ppm

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	TWA	20 ppm
Cyclohexanone (CAS 108-94-1)	STEL	50 ppm
	TWA	20 ppm

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m <sup>3</sup>
		50 ppm

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	TWA	133 mg/m3 20 ppm
	STEL	550 mg/m3
Cyclohexanone (CAS 108-94-1)	TWA	100 ppm 275 mg/m3 50 ppm
	STEL	81.6 mg/m3
	TWA	20 ppm 40.8 mg/m3 10 ppm

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m3
	TWA	50 ppm 133 mg/m3 20 ppm
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	STEL	550 mg/m3
	TWA	100 ppm 275 mg/m3 50 ppm
Cyclohexanone (CAS 108-94-1)	STEL	82 mg/m3
	TWA	20 ppm 41 mg/m3 10 ppm

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	TWA	133 mg/m3
	TWA	20 ppm 275 mg/m3
Cyclohexanone (CAS 108-94-1)	TWA	50 ppm 40.8 mg/m3 10 ppm

**Spain. Occupational Exposure Limits**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m3
	TWA	50 ppm 133 mg/m3 20 ppm
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	STEL	550 mg/m3
	TWA	100 ppm 275 mg/m3 50 ppm
Cyclohexanone (CAS 108-94-1)	STEL	82 mg/m3
	TWA	20 ppm 41 mg/m3 10 ppm

**Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)**

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-butoxyethyl acetate (CAS 112-07-2)	Ceiling	333 mg/m <sup>3</sup>
	TWA	50 ppm 70 mg/m <sup>3</sup> 10 ppm
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	Ceiling	550 mg/m <sup>3</sup>
	TWA	100 ppm 275 mg/m <sup>3</sup> 50 ppm
Cyclohexanone (CAS 108-94-1)	Ceiling	81 mg/m <sup>3</sup>
	TWA	20 ppm 41 mg/m <sup>3</sup> 10 ppm

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-butoxyethyl acetate (CAS 112-07-2)	STEL	132 mg/m <sup>3</sup>
	TWA	20 ppm 66 mg/m <sup>3</sup> 10 ppm
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	STEL	275 mg/m <sup>3</sup>
	TWA	50 ppm 275 mg/m <sup>3</sup> 50 ppm
Cyclohexanone (CAS 108-94-1)	STEL	200 mg/m <sup>3</sup>
	TWA	50 ppm 100 mg/m <sup>3</sup> 25 ppm

**UK. EH40 Workplace Exposure Limits (WELs)**

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-butoxyethyl acetate (CAS 112-07-2)	STEL	332 mg/m <sup>3</sup>
	TWA	50 ppm 133 mg/m <sup>3</sup> 20 ppm
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	STEL	548 mg/m <sup>3</sup>
	TWA	100 ppm 274 mg/m <sup>3</sup> 50 ppm
Cyclohexanone (CAS 108-94-1)	STEL	82 mg/m <sup>3</sup>
	TWA	20 ppm 41 mg/m <sup>3</sup> 10 ppm

**EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU**

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m <sup>3</sup>
	TWA	50 ppm 133 mg/m <sup>3</sup> 20 ppm
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	STEL	550 mg/m <sup>3</sup>
		100 ppm

**EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU**

Components	Type	Value
Cyclohexanone (CAS 108-94-1)	TWA	275 mg/m <sup>3</sup>
		50 ppm
	STEL	81.6 mg/m <sup>3</sup>
		20 ppm
	TWA	40.8 mg/m <sup>3</sup>
		10 ppm

**Biological limit values**

**Czech Republic. Limit Values for Indicators of Biological Exposure Tests in Urine and Blood, Annex 2, Tables 1 and 2, Government Decree 432/2003 Sb.**

Components	Value	Determinant	Specimen	Sampling Time
2-butoxyethyl acetate (CAS 112-07-2)	200 mg/g	Butoxyacetic acid (with hydrolysis)	Creatinine in urine	*
	0.17 mmol/mmol	Butoxyacetic acid (with hydrolysis)	Creatinine in urine	*
Cyclohexanone (CAS 108-94-1)	50 mg/g	1,2-Cyclohexanediol (with hydrolysis)	Creatinine in urine	*
	0.049 mmol/mmol	1,2-Cyclohexanediol (with hydrolysis)	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Germany. TRGS 903, BAT List (Biological Limit Values)**

Components	Value	Determinant	Specimen	Sampling Time
2-butoxyethyl acetate (CAS 112-07-2)	100 mg/l	Butoxyessigsäure	Urine	*

\* - For sampling details, please see the source document.

**Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4**

Components	Value	Determinant	Specimen	Sampling Time
Cyclohexanone (CAS 108-94-1)	80 mg/l	1,2-Ciclohexanodiol, con hidrólisis	Urine	*
	8 mg/l	Ciclohexanol, con hidrólisis	Urine	*

\* - For sampling details, please see the source document.

**Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA)**

Components	Value	Determinant	Specimen	Sampling Time
2-butoxyethyl acetate (CAS 112-07-2)	200 mg/l	Gesamt-Butoxyessigsäure	Urine	*
	100 mg/l	Butoxyessigsäure	Urine	*
Cyclohexanone (CAS 108-94-1)	100 mg/l	Gesamt-1,2-Cyclohexandiol	Urine	*

\* - For sampling details, please see the source document.

**UK. EH40 Biological Monitoring Guidance Values (BMGVs)**

Components	Value	Determinant	Specimen	Sampling Time
Cyclohexanone (CAS 108-94-1)	2 mmol/mol	Cyclohexanol	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Recommended monitoring procedures** Not available.

**Derived no effect levels (DNELs)**

Components	Type	Route	Value	Form
2-butoxyethyl acetate (CAS 112-07-2)	Workers	Dermal	169 mg/kg	Systemic long term
		Dermal	120 mg/kg	Systemic acute short term
		Inhalation	333 mg/m <sup>3</sup>	Local acute short term
		Inhalation	133 mg/m <sup>3</sup>	Systemic long term

Components	Type	Route	Value	Form
2-methoxy-1-methylethyl acetate (CAS 108-65-6)	Workers	Dermal	796 mg/kg	Systemic long term
Cyclohexanone (CAS 108-94-1)	Workers	Inhalation	275 mg/m3	Systemic long term
		Dermal	4 mg/kg bw/d	Systemic Long Term
		Dermal	4 mg/kg bw/d	Systemic Short Term
		Inhalation	80 mg/m3	Local short term
		Inhalation	80 mg/m3	Systemic short term
		Inhalation	40 mg/m3	Local long term
		Inhalation	40 mg/m3	Systemic long term

#### Predicted no effect concentrations (PNECs)

Components	Type	Route	Value	Form		
2-butoxyethyl acetate (CAS 112-07-2)	Not applicable	Freshwater	0.304 mg/l	Releases		
		Intermittent	0.56 mg/l			
		Marine water	0.0304 mg/l			
		Secondary	0.06 g/kg	Food poisoning		
		Sediment	2.03 mg/kg	Freshwater		
		Sediment	0.203 mg/kg	Marine water		
		Soil	0.42 mg/kg	Sewage Treatment Plant		
		STP	90 mg/l			
		Freshwater	0.635 mg/l			
2-methoxy-1-methylethyl acetate (CAS 108-65-6)	Not applicable	Intermittent	6.35 mg/l	Releases		
		Marine water	0.0635 mg/l	Freshwater		
		Sediment	3.29 mg/kg			
		Sediment	0.329 mg/kg	Marine water		
		Soil	0.29 mg/kg	Sewage Treatment Plant		
		STP	100 mg/l			
		Intermittent	0.329 mg/l		Releases	
		Cyclohexanone (CAS 108-94-1)	Not applicable	Marine water	0.00329 mg/l	Freshwater
				Sediment	0.168 mg/kg	
Sediment	0.0168 mg/kg			Marine water		
Soil	0.0143 mg/kg			Sewage Treatment Plant		
STP	10 mg/l					
Intermittent	0.329 mg/l				Releases	

#### Exposure guidelines

##### EU Exposure Limit Values: Skin designation

2-butoxyethyl acetate (CAS 112-07-2)	Can be absorbed through the skin.
2-methoxy-1-methylethyl acetate (CAS Proprietary)	Can be absorbed through the skin.
Cyclohexanone (CAS 108-94-1)	Can be absorbed through the skin.

##### Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

2-butoxyethyl acetate (CAS 112-07-2)	Can be absorbed through the skin.
2-methoxy-1-methylethyl acetate (CAS Proprietary)	Can be absorbed through the skin.
Cyclohexanone (CAS 108-94-1)	Can be absorbed through the skin.

#### 8.2. Exposure controls

**Appropriate engineering controls** Not available.

##### Individual protection measures, such as personal protective equipment

**General information** Not available.

**Eye/face protection** Wear safety glasses; chemical goggles (if splashing is possible).  
Eye wash fountain and emergency showers are recommended.

##### Skin protection

- **Hand protection** Wear appropriate chemical resistant gloves.

- **Other** Wear appropriate chemical resistant clothing.

**Respiratory protection** Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.

**Thermal hazards** Not available.

**Hygiene measures** Do not get this material in contact with skin. Avoid contact with skin, eyes and clothing.  
When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.  
Launder contaminated clothing before reuse.

Environmental exposure controls Not available.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Physical state Not available.

Form Liquid.

Color Black.

Odor Solvent.

Odor threshold Not available.

pH 5.8 - 6.2 Metler Toledo pH Meter. Temperature 25°C

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Flash point  $\geq 149.0$  °F ( $\geq 65.0$  °C) Closed Cup EPA Method 1020

Evaporation rate Not available.

Flammability (solid, gas) Not available.

#### Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

#### Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity 9.8 - 11 cP Brookfield Viscometer ( $\pm 0.5$ ) Temperature 22°C. Spindle # 18 (S18) RPM 100. Wait approx 10 min to take the reading

Explosive properties Not available.

Oxidizing properties Not available.

### 9.2. Other information

VOC  $< 916$  g/L Calculated

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## SECTION 10: Stability and reactivity

10.1. Reactivity Not available.

10.2. Chemical stability Stable at normal conditions.

10.3. Possibility of hazardous reactions None known.

10.4. Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials Not available.

10.6. Hazardous decomposition products Not available.

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## SECTION 11: Toxicological information

General information Not available.

### Information on likely routes of exposure

Inhalation Harmful if inhaled.

Skin contact Harmful in contact with skin.

Eye contact Causes serious eye damage.

Ingestion Ingestion is not a likely route of exposure.

Symptoms Not available.

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	Harmful if inhaled. Harmful in contact with skin.
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage.
<b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met.
<b>Skin sensitization</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.

Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA. Carbon black is present only in a bound form in this preparation.

**Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)**

Not listed.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Cyclohexanone (CAS 108-94-1)

3 Not classifiable as to carcinogenicity to humans.

<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Mixture versus substance information</b>	Not available.
<b>Other information</b>	Complete toxicity data are not available for this specific formulation.

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**SECTION 12: Ecological information**

<b>12.1. Toxicity</b>	No toxicity data noted for the ingredient(s).
<b>12.2. Persistence and degradability</b>	Not available.
<b>12.3. Bioaccumulative potential</b>	Not available.
<b>Partition coefficient n-octanol/water (log Kow)</b>	
Cyclohexanone	0.81
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.4. Mobility in soil</b>	Not available.
<b>12.5. Results of PBT and vPvB assessment</b>	Not a PBT or vPvB substance or mixture.
<b>12.6. Other adverse effects</b>	Not available.

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**SECTION 13: Disposal considerations**

<b>13.1. Waste treatment methods</b>	
<b>Residual waste</b>	Not available.
<b>Contaminated packaging</b>	Not available.
<b>EU waste code</b>	Not available.
<b>Disposal methods/information</b>	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.

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**SECTION 14: Transport information**

<b>DOT</b>	
<b>UN number</b>	NA1993
<b>UN proper shipping name</b>	Combustible liquid n.o.s. (2-methoxy-1-methylethyl acetate, cyclohexanone) -Not regulated in quantities less than 119 gallons

**Transport hazard class(es)****Class** Combustible**Subsidiary risk** -**Packing group** III**Special precautions for user** Not available.**DOT Supplemental Information** DOT Classification only applies to shipments within the US and Puerto Rico.**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**ADR**

Not regulated as dangerous goods.

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**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 (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 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.

**Other EU regulations****Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

2-methoxy-1-methylethyl acetate (CAS Proprietary)

Cyclohexanone (CAS 108-94-1)

**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.



**Other information**

This Safety Data Sheet complies with the requirements of Regulation (EU) 2015/830. Classification according to Regulation (EC) No 1272/2008 as amended.

Specific Provisions: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (in the amended version OJ L 396 from 29.05.2007 page 3 with further rectifications and amendments).

**National regulations**

Not available.

**15.2. Chemical safety assessment**

See attached SUMI or GEIS document, if applicable.

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**SECTION 16: Other information****References**

Regulation (EC) No. 1907/2006 of December 18, 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and establishing a European Chemicals Agency (REACH).

Regulation (EU) 2015/830 of May 28, 2015 amending Regulation (EC) No. 1907/2006.

Regulation (EC) No. 1272/2008 of December 16, 2008 on classification, labeling and packaging of substances and mixtures, and amendments (CLP).

**Information on evaluation method leading to the classification of mixture**

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

**Full text of any H-statements not written out in full under Sections 2 to 15**

H226 Flammable liquid and vapor.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H332 Harmful if inhaled.  
H336 May cause drowsiness or dizziness.

**Revision information**

SECTION 1: Identification of the substance/mixture and of the company/undertaking: Important information  
SECTION 2: Hazards identification: 2.3. Other hazards  
Composition / Information on Ingredients: Ingredients  
SECTION 3: Composition/information on ingredients: Composition comments  
9. Physical & Chemical Properties: Multiple Properties  
SECTION 11: Toxicological information: Carcinogenicity  
HazReg Data: Europe - EU

**Training information**

Follow training instructions when handling this material.

**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.

This safety data sheet is meant to convey information about HP inks (toners) provided in HP Original ink (toner) supplies. If our Safety Data Sheet has been provided to you with a refilled, remanufactured, compatible or other non-HP Original supply please be aware that the information contained herein was not meant to convey information about such products and there could be considerable differences from information in this document and the safety information for the product you purchased. Please contact the seller of the refilled, remanufactured or compatible supplies for applicable information, including information on personal protective equipment, exposure risks and safe handling guidance. HP does not accept refilled, remanufactured or compatible supplies in our recycling programs.

## Explanation of abbreviations

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds

# Safe Use of Mixture Information (SUMI)

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## Solvent based inks: SB01 \*English\*

### Disclaimer


*This SUMI is a generic document for communicating conditions of safe use of a product in response to the REACH obligation. This document relates only to conditions of safe use and is not specific to a product. By adding this SUMI to a specific product SDS, the importer/formulator declares that the mixture can safely be used following the instructions below. Following occupational health legislation, the employer of workers remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product. Derived No Effect Levels (DNEL) and Predicted No Effect Concentration (PNEC) values of substances derived from the Chemical Safety Assessment (CSA) will be given in section 8 of the SDS.*

*The REACH registration number(s), where applicable, completes an extended product SDS.*

### Operational conditions

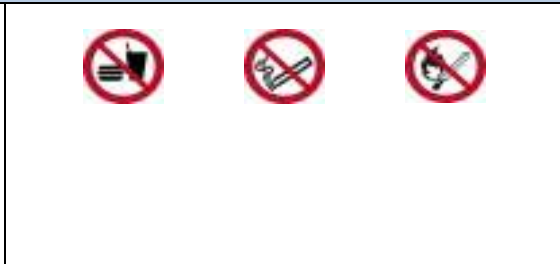
<b>Maximum duration</b>	Up to 8 hours per day
<b>Frequency of exposure</b>	< 240 days per year
<b>Process conditions</b>	<p>Covers use at ambient temperatures.</p> <p>Use of an integrated local exhaust ventilation is required in drying zone.</p> <p>Adequate ventilation should be provide for the areas where printing is performed. ANSI/ASHRAE Standard 62.1-2013 provides guidelines to ensure acceptable air quality in the workspace.</p> <p>Use explosion proof electrical equipment.</p> <p>Keep emissions below the occupational exposure limits of the ingredients specified in section 8 of the SDS.</p> <p>Avoid direct contact.</p> <p>Regular cleaning of equipment and work area.</p> <p>Supervision in place to check that Risk Management Measures are in place are being correctly used and Operational Conditions followed.</p>

### Risk management measures

<p><b>Conditions and measures related to Personal Protection Equipment, hygiene and health evaluation</b></p>	<p>Wear safety glasses with side shields (or goggles), if splashing is possible.</p> <p>Wear appropriate chemical resistant gloves: see section 8 of the SDS.</p> <p>Wear appropriate chemical resistant clothing.</p> <p>In case of inadequate ventilation wear respiratory protection.</p> <p>Eye wash fountain and emergency showers are recommended.</p> <p>Avoid breathing mist/vapours.</p> <p>Avoid contact with skin, eyes and clothing.</p> <p>Training of workers in relation to proper use and maintenance of all Personal protection equipment (PPE) must be ensured.</p>
	

### Good practice advice

Use personal protective equipment as required.  
 Wash hands before breaks and after work.  
 Keep good industrial hygiene and safety practice.  
 Use only with adequate ventilation.  
 Do no eat, drink or smoke when using this product.  
 Wash contaminated clothing before reuse.  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
 Store in a well-ventilated place.  
 Keep container tightly closed.  
 Store at room temperature.



### Environmental measures

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 appropriately licenced waste contractor.

### Use descriptors

IS-Use at industrial sites
PW-Widespread use by professional workers
SU7-Printing and reproduction media
PC18-Inks and Toners
<p>PROC1-Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.</p> <p>PROC2-Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions</p> <p>PROC3- Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition</p> <p>PROC8a-Transfer of substance or mixture (charging and discharging) at non-dedicated facilities</p> <p>PROC8b-Transfer of substance or mixture (charging and discharging) at dedicated facilities</p> <p>ERC5-Use at industrial site leading to inclusion into/onto article</p> <p>ERC8c-Widespread use leading to inclusion into/onto article (indoor)</p>

### Additional information on product composition

In section 2 of the SDS as well as on the label, the classification of the mixture is provided.  
 The classification of the mixture is based on the individual ingredients and their concentration within the mixture.  
 All ingredients contributing to the classification are stated in Section 3 of the SDS.  
 Relevant limit values of ingredients on which the exposure assessment is based, are listed in section 8 of the SDS.  
 The product may contain sensitizing ingredients that may cause allergic reaction to certain people.  
 Section 2 of the SDS states these ingredients where applicable.