

**Trade name:** 79000-00104, ink, white**Current version :** 1.0.2, issued: 24.07.2023**Replaced version:** 1.0.1, issued: 13.07.2023**Region:**  
GER**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****79000-00104, ink, white****79000-00204, ink, white****UFI:****0AWV-P0FM-X007-67ME****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

printer's ink

Ink

**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**

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Daimlerstrasse 14

78532 Tuttlingen

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**Advice on Safety Data Sheet**

sdb\_info@umco.de

**Subsidiary USA:****Address**

Paul Leibinger Inc

2702 Buell Drive, Suite B

East Troy, WI 52120 USA

Phone: +01 262 642 4030

**1.4 Emergency telephone number**

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

For medical advice in the USA (Transport &amp; Environment):

+1 800 255 3924 (24h service)

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Eye Irrit. 2; H319

Flam. Liq. 2; H225

STOT SE 3; H336

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

**2.2 Label elements**

Trade name: 79000-00104, ink, white

Current version : 1.0.2, issued: 24.07.2023

Replaced version: 1.0.1, issued: 13.07.2023

Region:  
GER**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS02



GHS07

**Signal word**

Danger

**Hazardous component(s) to be indicated on label:**

butanone

**Hazard statement(s)**

H225 Highly flammable liquid and vapour.  
 H319 Causes serious eye irritation.  
 H336 May cause drowsiness or dizziness.

**Hazard statements (EU)**

EUH066 Repeated exposure may cause skin dryness or cracking.  
 EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

**Precautionary statement(s)**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P240 Ground and bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ventilating/lighting/ equipment.  
 P242 Use non-sparking tools.  
 P243 Take action to prevent static discharges.  
 P261 Avoid breathing mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P370+P378 In case of fire: Use sand, fire powder, carbon dioxide or foam to extinguish.

**UFI:**

0AWV-P0FM-X007-67ME

**2.3 Other hazards**

PBT assessment  
 No data available.

vPvB assessment  
 No data available.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Hazardous ingredients**

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	butanone			
	78-93-3 201-159-0 606-002-00-3 -	EUH066 Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336	>= 45,00 - <= 55,00	wt%

Trade name: 79000-00104, ink, white

Current version : 1.0.2, issued: 24.07.2023

Replaced version: 1.0.1, issued: 13.07.2023

Region:  
GER

2	<b>titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]</b>			
	13463-67-7 236-675-5 022-006-00-2 -	Carc. 2; H351i	>= 12,00 - <= 16,00	wt%
3	<b>ethyl-acetate</b>			
	141-78-6 205-500-4 607-022-00-5 -	EUH066 Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336	>= 4,00 - <= 7,00	wt%
4	<b>acetone</b>			
	67-64-1 200-662-2 606-001-00-8 -	EUH066 Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336	>= 3,00 - <= 6,00	wt%
5	<b>cellulose nitrate</b>			
	9004-70-0 618-392-2 603-037-00-6 -	Expl. 1.1; H201	>= 3,28 - <= 5,74	wt%
6	<b>1-methoxy-2-propanol</b>			
	107-98-2 203-539-1 603-064-00-3 -	Flam. Liq. 3; H226 STOT SE 3; H336	>= 1,00 - <= 3,00	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	V, W, 10	-	-	-
5	T	-	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

No	Route, target organ, concrete effect
2	H351i inhalational; -; -

### 3.3 Other information

Sodium perchlorate can be found either anhydrous (CAS 7601-89-0, EG 231-511-9) or as monohydrate (CAS 7791-07-3).

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician.

#### After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air.

#### After skin contact

In case of contact with skin wash off with water.

#### After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get medical attention if pain still persists.

#### After ingestion

**Trade name:** 79000-00104, ink, white

**Current version :** 1.0.2, issued: 24.07.2023

**Replaced version:** 1.0.1, issued: 13.07.2023

**Region:**  
GER

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

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

No data available.

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

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Alcohol resistant foam, CO<sub>2</sub>, powders, water spray

#### Unsuitable extinguishing media

High power water jet

### 5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Nitrous oxides (NO<sub>x</sub>)

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Containers close to fire should be transferred to a safe place. Cool closed containers exposed to fire with water.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Keep away from ignition sources.

#### For emergency responders

Personal protective equipment (PPE) - see section 8.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

### 6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

### 6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

#### General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing.

#### Advice on protection against fire and explosion

Keep away from ignition sources and provide for good ventilation. Vapours can form an explosive mixture with air. Isolate from sources of heat, sparks and open flame. Take precautionary measures against electrostatic loading (earthing necessary during loading operations). Use explosion-proof equipment/fittings and non-sparking tools.

Trade name: 79000-00104, ink, white

Current version : 1.0.2, issued: 24.07.2023

Replaced version: 1.0.1, issued: 13.07.2023

Region:  
GER**7.2 Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place.

**Recommended storage temperature**

Value 10 - 25 °C

**Requirements for storage rooms and vessels**

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

**Incompatible products**

Substances to be avoided, see section 10.

**Stoarge Class according TRGS 510**

3 Flammable liquids

**7.3 Specific end use(s)****Recommendations**

Ink for industrial CIJ printers

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0
	TRGS 900		
	Butanon		
	WEL long-term (8-hr TWA reference period)	600 mg/m <sup>3</sup>	200 ml/m <sup>3</sup>
	Ceiling Limit	1(I)	
	Skin resorption / sensibilisation	H	
	Notes	Y	
	2000/39/EC		
	Butanone		
	WEL short-term (15 min reference period)	900 mg/m <sup>3</sup>	300 ppm
	WEL long-term (8-hr TWA reference period)	600 mg/m <sup>3</sup>	200 ppm
2	ethyl-acetate	141-78-6	205-500-4
	2017/164/EU		
	Ethyl acetate		
	WEL short-term (15 min reference period)	1468 mg/m <sup>3</sup>	400 ppm
	WEL long-term (8-hr TWA reference period)	734 mg/m <sup>3</sup>	200 ppm
	TRGS 900		
	Ethylacetat		
	WEL long-term (8-hr TWA reference period)	730 mg/m <sup>3</sup>	200 ml/m <sup>3</sup>
	Ceiling Limit	2(I)	
	Notes	Y	
3	acetone	67-64-1	200-662-2
	TRGS 900		
	Aceton		
	WEL long-term (8-hr TWA reference period)	1200 mg/m <sup>3</sup>	500 ml/m <sup>3</sup>
	Ceiling Limit	2(I)	
	Notes	Y	
	2000/39/EC		
	Acetone		
	WEL long-term (8-hr TWA reference period)	1210 mg/m <sup>3</sup>	500 ppm
4	1-methoxy-2-propanol	107-98-2	203-539-1
	TRGS 900		
	1-Methoxy-2-propanol		

**Trade name:** 79000-00104, ink, white**Current version :** 1.0.2, issued: 24.07.2023**Replaced version:** 1.0.1, issued: 13.07.2023**Region:**  
GER

	WEL long-term (8-hr TWA reference period)	370	mg/m <sup>3</sup>	100	ml/m <sup>3</sup>
	Ceiling Limit	2(l)			
	Notes	Y			
	<b>2000/39/EC</b>				
	1-Methoxypropanol-2				
	WEL short-term (15 min reference period)	568	mg/m <sup>3</sup>	150	ppm
	WEL long-term (8-hr TWA reference period)	375	mg/m <sup>3</sup>	100	ppm
	Skin resorption / sensibilisation	Skin			

**Biological limit values**

No	Substance name				
1	<b>butanone</b>				
	<b>TRGS 903</b>				
	2-Butanon (Methylethylketon)				
	parameter	2-Butanon			
	Value	2		mg/l	
	Comments	DFG			
	sample material	U			
	Sampling moment	b			
2	<b>acetone</b>				
	<b>TRGS 903</b>				
	Aceton				
	parameter	Aceton			
	Value	50		mg/l	
	Comments	DFG			
	sample material	U			
	Sampling moment	b			
3	<b>1-methoxy-2-propanol</b>				
	<b>TRGS 903</b>				
	1-Methoxypropan-2-ol				
	parameter	1-Methoxypropan-2-ol			
	Value	15		mg/l	
	Comments	DFG			
	sample material	U			
	Sampling moment	b			

**8.2 Exposure controls****Appropriate engineering controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

**Personal protective equipment****Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

**Eye / face protection**

Tightly fitting safety glasses (EN 166).

**Hand protection**

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

**Other**

Normal chemical work clothing.

Trade name: 79000-00104, ink, white

Current version : 1.0.2, issued: 24.07.2023

Replaced version: 1.0.1, issued: 13.07.2023

Region:  
GER**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

State of aggregation			
liquid			
Colour			
white			
Odour			
ketone-like			
pH value			
No data available			
Boiling point / boiling range			
Value	>	63	°C
Source	supplier		
Melting point/freezing point			
No data available			
Decomposition temperature			
No data available			
Flash point			
Value		-4	°C
Source	supplier		
Ignition temperature			
No data available			
Auto-ignition temperature			
Source	supplier		
Comments	Product is not selfigniting.		
Explosive properties			
This product is not explosive. Formation of explosive / highly flammable vapour-air mixtures is possible through use.			
Flammability			
No data available			
Lower explosion limit			
Value		1,4	% vol
Source	supplier		
Upper explosion limit			
Value		11,5	% vol
Source	supplier		
Vapour pressure			
Value	>	105	hPa
Reference temperature		20	°C
Source	supplier		
Relative vapour density			
No data available			
Relative density			
No data available			
Density			

**Trade name:** 79000-00104, ink, white**Current version :** 1.0.2, issued: 24.07.2023**Replaced version:** 1.0.1, issued: 13.07.2023**Region:**  
GER

Value	0,99	-	1,05	g/cm <sup>3</sup>
Reference temperature			20	°C
Source	supplier			

**Solubility**

No data available

**Partition coefficient n-octanol/water (log value)**

No data available

**Kinematic viscosity**

Value	appr. 4	-	8	mPa*s
Type	dynamic			
Source	supplier			

**Solvent content**

Value	53	-	71	%
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**Particle characteristics**

No data available

**9.2 Other information****Other information**

No data available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

Dangerous reactions are not expected if the product is handled according to its intended use.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).

**10.3 Possibility of hazardous reactions**

Dangerous reactions are not to be expected when handling product according to its intended use.

**10.4 Conditions to avoid**

Heat, naked flames and other ignition sources.

**10.5 Incompatible materials**

None known.

**10.6 Hazardous decomposition products**

None, if handled according to intended use.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

No data available

**Acute dermal toxicity**

No data available

**Acute inhalational toxicity**

No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/irritation**

No data available

**Respiratory or skin sensitisation**

Trade name: 79000-00104, ink, white

Current version : 1.0.2, issued: 24.07.2023

Replaced version: 1.0.1, issued: 13.07.2023

Region:  
GER

No data available
<b>Germ cell mutagenicity</b>
No data available
<b>Reproduction toxicity</b>
No data available
<b>Carcinogenicity</b>
No data available
<b>STOT - single exposure</b>
No data available
<b>STOT - repeated exposure</b>
No data available
<b>Aspiration hazard</b>
No data available

**11.2 Information on other hazards****Endocrine disrupting properties**

No data available.

**Other information**

No data available.

**SECTION 12: Ecological information****12.1 Toxicity**

<b>Toxicity to fish (acute)</b>
No data available
<b>Toxicity to fish (chronic)</b>
No data available
<b>Toxicity to Daphnia (acute)</b>
No data available
<b>Toxicity to Daphnia (chronic)</b>
No data available
<b>Toxicity to algae (acute)</b>
No data available
<b>Toxicity to algae (chronic)</b>
No data available
<b>Bacteria toxicity</b>
No data available

**12.2 Persistence and degradability**

No data available.

**12.3 Bioaccumulative potential**

No data available.

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

<b>Results of PBT and vPvB assessment</b>	
PBT assessment	No data available.
vPvB assessment	No data available.

**Trade name:** 79000-00104, ink, white**Current version :** 1.0.2, issued: 24.07.2023**Replaced version:** 1.0.1, issued: 13.07.2023**Region:**  
GER**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**12.8 Other information****Other information**

Do not discharge product unmonitored into the environment.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Used, completely emptied, packaging may be disposed of or passed to recovery systems in compliance with national and local provisions related to waste legislation. Like the unused product, the packaging that has not been emptied, may be disposed of or passed to recovery systems in compliance with national and local provisions related to waste legislation.

**SECTION 14: Transport information****14.1 Transport ADR/RID/ADN**

Class	3
Classification code	F1
Packing group	II
Hazard identification no.	33
UN number	UN1210
Proper shipping name	PRINTING INK
Special Provision 640	640C
Tunnel restriction code	D/E
Label	3

**14.2 Transport IMDG**

Class	3
Packing group	II
UN number	UN1210
Proper shipping name	PRINTING INK
EmS	F-E, S-D
Label	3

**14.3 Transport ICAO-TI / IATA**

Class	3
Packing group	II
UN number	UN1210
Proper shipping name	Printing ink
Label	3

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

No data available.

Trade name: 79000-00104, ink, white

Current version : 1.0.2, issued: 24.07.2023

Replaced version: 1.0.1, issued: 13.07.2023

Region:  
GER**14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3, 40

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	acetone	67-64-1	200-662-2	75
2	butanone	78-93-3	201-159-0	75
3	ethyl-acetate	141-78-6	205-500-4	75
4	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5	75

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is subject to Part I of Annex I, risk category: P5b

**Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)**

VOC content 524,8- g/l  
745,8

**Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

Please see [https://home-affairs.ec.europa.eu/policies/internal-security/counter-terrorism-and-radicalisation/prevention-radicalisation/terrorist-content-online/list-national-competent-authority-authorities-and-contact-points\\_en](https://home-affairs.ec.europa.eu/policies/internal-security/counter-terrorism-and-radicalisation/prevention-radicalisation/terrorist-content-online/list-national-competent-authority-authorities-and-contact-points_en)

**National regulations****Water Hazard Class (Germany)**

Class

1

Source

Classification according to AwSV (Regulation on facilities for handling substances that are hazardous to water).

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this mixture.

**SECTION 16: Other information****Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

**Trade name:** 79000-00104, ink, white

**Current version :** 1.0.2, issued: 24.07.2023

**Replaced version:** 1.0.1, issued: 13.07.2023

**Region:**  
GER

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.  
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

H201	Explosive; mass explosion hazard.
H226	Flammable liquid and vapour.
H351i	Suspected of causing cancer by inhalation.

**Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)**

T	This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.
V	If the substance is to be placed on the market as fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied.
W	It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung. This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.
1	The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture.

**Creation of the safety data sheet**

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This information is based on our present knowledge and experience.  
The safety data sheet describes products with a view to safety requirements.  
It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:  
Alterations to the previous edition are marked in the left-hand margin.

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