



## SAFETY DATA SHEET

according to 1907/2006/EC as amended by 453/2010/EC

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## Section 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product name** Stollaquid CF G 1044 Schwarz

**Product code** BAT1-97465

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

#### Identified uses

based on use descriptor system given by guideline of the European Chemical Agency

Sector of use SU 3

Product category PC9a, PC9b

Further information see chapter Exposure scenario

The product is only for industrial and/or professional use, not for any private consumer use.

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

#### Company/Undertaking Identification

Producer/Supplier DuPont Austria GmbH  
Street/Box Mödlinger Strasse 15  
Nat.-Code/Postal code/City AT 2353 Guntramsdorf  
Telephone +43 (0)2236 500-0

#### Product Information

Telephone +43 (0)2236 500-0

#### Information on SDS

Responsible Department Regulatory Affairs  
Telephone +49 (0)202 529-2385  
Telefax +49 (0)202 529-2804  
E-mail address sds-competence@deu.dupont.com

### 1.4. Emergency telephone

Emergency telephone number of manufacturer +44 (0)845 600-6640

**For further information, please also consult our Internet site**

<http://www.dupont.com>

## Section 2. Hazards identification

The mixture is classified as dangerous in accordance with Directive 1999/45/EC.

### 2.1. Classification of the substance or mixture

#### Classification of the mixture

According to European Directive 1999/45/EC as amended.

Classification : Irritant;

[R36/37/38] Irritating to eyes, respiratory system and skin.

### 2.2. Label elements

#### Symbol and indication of hazard.



Xi Irritant

#### R-phrases

R36/37/38 | Irritating to eyes, respiratory system and skin.



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### S-phrases(s)

S23	Do not breathe vapour.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.

### 2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

## Section 3. Composition/information on ingredients

### 3.1. Substances

This product is a mixture. Health hazard information is based on its components.

### 3.2. Mixtures

#### Chemical characterization

Mixture of synthetic resins, pigments, and solvents

#### Hazardous components

Substances presenting a health or environmental hazard within the meaning of the DSD 67/548/EEC and/or (EC) 1272/ 2008 title II and annex VI as amended by (EC) 790/2009

CAS 64-17-5	ethanol	
EC 200-578-6	REACH no registration number available	1.00 - < 2.00 %
Classification	National occupational exposure limits	
[VI*]	Flam. Liq. 2, H225;	
CAS 67-63-0	propan-2-ol	
EC 200-661-7	REACH 01-2119457558-25	1.00 - < 2.00 %
Classification	F: R11; Xi: R36; R67	
[VI*]	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336;	
CAS 121-44-8	triethylamine	
EC 204-469-4	REACH no registration number available	1.00 - < 2.00 %
Classification	F: R11; Xn: R20/21/22; C: R35	
[VI*]	Flam. Liq. 2, H225; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Corr. 1A, H314; Acute Tox. 4, H332;	

Up to the given revision date of this safety data sheet only the above mentioned REACH registration numbers are assigned to the chemical substances used in this mixture.

#### Additional advice

To avoid misinterpretation in any case of risk assessment it is not allowed to accumulate the above mentioned percentages. See full text of R-phrases in chapter 16.

See full text of H-phrases in chapter 16.

[VI\*]: Harmonised classification given by Annex VI of Regulation (EC) No 1272/2008 in its latest amended form

## Section 4. First aid measures

### 4.1. Description of first aid measures

#### General advice

When symptoms persist or in all cases of doubt seek medical advice. Never give anything by mouth to an unconscious person.

#### Inhalation

Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

**Skin contact**

Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

**Eye contact**

Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

**Ingestion**

If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

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

Please see practical experience in section 11.

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

If unconscious place in recovery position and seek medical advice.

**Section 5. Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Not applicable. The product itself does not burn.

**Extinguishing media which shall not be used for safety reasons**

High volume water jet

**5.2. Special hazards arising from the substance or mixture****Hazardous combustion products**

Fire will produce dense black smoke containing hazardous combustion products. Exposure to decomposition products may be a hazard to health.

**Hazardous decomposition products**

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

**5.3. Advice for firefighters****Fire and Explosion Hazards**

no data available

**Special Protective Equipment and Fire Fighting Procedures**

Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

**Section 6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Keep in a well-ventilated place. Keep away from sources of ignition. Do not inhale vapours.

**6.2. Environmental precautions**

Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems. Please avoid any emission of volatile organic compounds as possible.

**6.3. Methods and materials 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. Clean preferably with a detergent; avoid use of solvents.



## 6.4. Reference to other sections

Comply with safety directives (see chapters 7 and 8).

## Section 7. Handling and storage

### 7.1. Precautions for safe handling

#### Safe handling advice

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Comply with the health and safety at work laws. If material is a coating, do not sand, flame cut, braze or weld dry coating without an appropriate respirator or appropriate ventilation, and gloves.

#### Advice on protection against fire and explosion

Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one. The accumulation of contaminated rags may result in spontaneous combustion. Good housekeeping standards and regular safe removal of waste materials will minimize the risks of spontaneous combustion and other fire hazards.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage areas and containers

Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### Advice on common storage

Store separately from oxidizing agents and strongly alkaline and strongly acidic materials.

Do not store together with explosives, compressed, liquefied and pressurised gases, aerosols, flammable liquids, oxidizing products, non combustible toxic products and infectious products.

### 7.3. Specific end uses

Please see exposure scenarios as given in the annex.

## Section 8. Exposure controls/personal protection

### 8.1. Control parameters

#### DNEL

CAS-No.	Chemical Name	End Use	Exposure routes	Frequency of exposure	Type	Value
67-63-0	propan-2-ol	Workers	Dermal	Long term	Systemic effects	888 mg/kg/day
		Workers	Inhalative	Long term	Systemic effects	200 mg/kg liq

#### PNEC

CAS-No.	Chemical Name	Compartment	Type	Value
67-63-0	propan-2-ol	Aquatic	Sediment	28 mg/kg
		Aquatic	Fresh water	140.9 mg/l
		Aquatic	Sea-water	140.9 mg/l

#### Community / national occupational exposure limits

CAS-No.	Chemical Name	Time	Type	Value	Note
		Source			
64-17-5	ethanol		TWA	1,920 mg/m3	

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CAS-No.	Chemical Name	Time Source	Type	Value	Note
67-63-0	propan-2-ol		TWA	1,000 ppm	
		15 min	STEL	500 ppm	
			STEL	1,250 mg/m3	
		8 hr	TWA	999 mg/m3	
		8 hr	TWA	400 ppm	
121-44-8	triethylamine	15 min	IOELV15	12.6 mg/cm3	Skin
		15 min	IOELV15	3 ppm	Skin
		8 hr	IOELV8	8.4 mg/cm3	Skin
		8 hr	IOELV8	2 ppm	Skin
		15 min	STEL	17 mg/m3	
		15 min	STEL	4 ppm	
		8 hr	TWA	8 mg/m3	
		8 hr	TWA	2 ppm	

## 8.2. Exposure controls

### Additional technical information on the plant

Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn. Mask with gas filter, type A (EN 141)

### Protective equipment

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

### Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

### Hand protection

The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Glove material	Glove thickness	Break through time
Nitrile rubber	0.33 mm	60 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

### Eye protection

Wear protective eyewear for protection against solvent spatter.



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### Skin and body protection

Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

### Hygiene measures

Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

### Environmental exposure controls

Do not let product enter drains. For ecological information refer to section 12.

## Section 9. Physical and chemical properties

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

#### Appearance

Form: liquid Colour: black Odour: Odour is not perceptible.

#### Important health, safety and environmental information

Property	Value	Method
pH	1 – 7.8	
Melting point/freezing point	Not applicable.	
Boiling point/boiling range	60 °C	
Flash point	Not applicable.	DIN 53213/ISO 1523 Does not sustain combustion.
Evaporation rate	Slower than Ether	
Flammability (solid, gas)	not relevant as product is liquid	
Lower explosion limit	no data available	
Upper explosion limit	no data available	
Vapour pressure	2.8 hPa	
Vapour density	no data available	
Relative density	1.01 g/cm <sup>3</sup>	20 °C - DIN 53217/ISO 2811
Solubility(ies)		
Water solubility	appreciable	
Solubility in other solvents	no data available	
Partition coefficient: n-octanol/water	This product is a mixture. For ingredient details see section 12	
Autoignition temperature	215 °C	DIN 51794 based on organic solvent content
Decomposition temperature	This product is a mixture. For further information see section 10.	
Viscosity (23 °C)	<20 s	ISO 2431 - 1993 6 mm
Explosive properties	Not explosive	
Oxidizing properties	not oxidizing	

### 9.2. Other data

Solvent separation test	< 3%	ADR/RID
Content of volatile components (including water)	84.5 %	Basis Vapour pressure >= 0.01 kPa
organic solvent content	5.8 %	Basis Vapour pressure >= 0.01 kPa

## Section 10. Stability and reactivity

### 10.1. Reactivity

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

### 10.2. Chemical stability

The product is chemically stable.

### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

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en/GB Page 7 - 15**10.4. Conditions to avoid**

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

**10.5. Incompatible materials to avoid**

not required under normal use

**10.6. Hazardous decomposition products**

None known.

**Section 11. Toxicological information****11.1. Information on toxicological effects****General observations**

There is no data available on the product. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 2 and 3 for details.

**Practical experience**

Swallowing may cause nausea, diarrhoea, vomiting, gastro-intestinal irritation and chemical pneumonia. Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

**Acute toxicity****Acute inhalation toxicity**

EINECS-No.	Chemical Name	Species	Type	Exposure time	Value	Method
204-469-4	triethylamine	rat	LC50	1 h	3,496 ppm	

**Acute dermal toxicity**

EINECS-No.	Chemical Name	Species	Type	Exposure time	Value	Method
204-469-4	triethylamine	rabbit	LD50		410 mg/kg	

**Acute oral toxicity**

EINECS-No.	Chemical Name	Species	Type	Exposure time	Value	Method
204-469-4	triethylamine	rat	LD50		460	

**Irritant effects**

The liquid splashed in the eyes may cause irritation and reversible damage. Inhalation of mist causes irritation of respiratory system. May cause skin irritation in susceptible persons.

**Section 12. Ecological information**

There are no data available on the product itself. The product should not be allowed to enter drains or watercourses. The data in this section is consistent with data from chemical safety reports available at the date of revision.



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### 12.1. Toxicity

No information available.

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

No information available.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

Based on available data no ingredient is classified for this hazard property (please see section 3).

### 12.6. Other adverse effects

The preparation was evaluated in accordance with the conventional method of the preparation directive 1999/45/EG and was not classified as environmental dangerous.

### Adsorbed organic bound halogens (AOX)

Product does not contain organic linked halogens contributing to AOX.

## Section 13. Disposal considerations

### 13.1. Waste treatment methods

Dispose of in accordance with local regulations.

#### Product

Recommendation:

A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

Waste Key Number	Description
08 01 11	waste paint and varnish containing organic solvents or other dangerous substances

### Uncleaned packaging

Recommendation:

Properly emptied containers are to be scrap processed or reconditioned. Improperly emptied containers are considered hazardous waste (waste key number 150110). Waste, including emptied containers, is controlled waste. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. If fully drained containers are compacted they can be regarded as Controlled Waste and disposed of in accordance with the requirements of the Control of Pollution Act 1974 and the Environmental Protection Act 1990 (GB), the Pollution Control and Local Government (NI) Order 1978 (NI) or of the EC (Waste) Regulations 1979 and the EC (Toxic & Dangerous Waste) Regulations 1982 (IRL).

## Section 14. Transport information

Not classified as dangerous in the meaning of transport regulations.

ADR/RID:in accordance with nota 1 of chapter 2.2.3.1.1

IMDG:in accordance with chapter 2.3.1.3

ICAO/IATA:in accordance with chapter 3.3.1.3

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.





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### 14.3. Transport hazard class(es)

Not applicable.

### 14.4. Packaging group

Not applicable.

### 14.5. Environmental hazards

ADR/RID; IMDG; ICAO/IATA: none

#### Marine pollutant

IMDG: no

### 14.6. Special precautions for user

please see section 6 - 8

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Deliveries shall only be made based on appropriate packaging and in compliance with traffic laws.

## Section 15. Regulatory information

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

#### National legislation

This safety datasheet has been prepared according to British legislation.

The product is labeled according to the Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 as amended (CHIP Regulations). The risk associated with the use of this product must be assessed in accordance with the Control of Substances Hazardous to Health (COSHH) Regulations and the Dangerous Substances and Explosive Atmospheres Regulations.

### 15.2. Chemical Safety Assessment

No safety checks were carried out on the mixture.

## Section 16. Other information

Full text of R phrases with no. appearing in section 3

R11	Highly flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R35	Causes severe burns.
R36	Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R67	Vapours may cause drowsiness and dizziness.

Full text of H phrases with no. appearing in section 3

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.



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H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.

### Information taken from reference works and the literature.

Substance No.	CAS no: <a href="http://www.cas.org/EO/regsys.html">www.cas.org/EO/regsys.html</a> EC no: <a href="http://ecb.jrc.it/esis/index.php?PGM=ein">http://ecb.jrc.it/esis/index.php?PGM=ein</a>
Substances presenting a health or environmental hazard within the meaning of Directive 67/548/EEC.	<a href="http://ecb.jrc.it/existing-chemicals/">http://ecb.jrc.it/existing-chemicals/</a> <a href="http://ecb.jrc.it/classification-labelling/">http://ecb.jrc.it/classification-labelling/</a> <a href="http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB">http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB</a> <a href="http://www.cdc.gov/niosh/ipcs/icstart.html">http://www.cdc.gov/niosh/ipcs/icstart.html</a>
Other directives, limitations and prohibitory regulations	Directive 76/769/EC Directive 98/24/EC Directive 90/394/EC Directive 79/393/EC Directive 1999/45/EC Directive 2006/8/EC EUR-LEX: <a href="http://europa.eu.int/eur-lex/lex">http://europa.eu.int/eur-lex/lex</a>
Exposure limit for the pure substance	<a href="http://osha.europa.eu/OSHA">http://osha.europa.eu/OSHA</a>

### Training advice

Directive 76/769/EC  
Directive 98/24/EC

### Further information

The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.

### Report version

Version	Changes
2.0	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, Annex

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**Annex - Exposure scenarios****Exposure scenarios for industrial use of coating material**

The exposure scenario provides specific information on how a hazardous substance (in a mixture) is to be managed and controlled. It considers specific conditions of use, in order to ensure that a use is safe to humans and the environment. Identified risk management measures are to be implemented unless the downstream user is able to ensure safe use in a diverging way.

**1. Exposure scenario (type 1) for application of coatings by dipping****Free short title:**

Industrial application of coatings by electrophoretical dipping (including adjustment materials)

**Systematic title based on use descriptors:**

Sector of use	SU 3
Product category	PC9a, PC9b
Process category	PROC4 (covering PROC2), PROC5 (covering PROC3), PROC8a (covering PROC8b), PROC13
Environmental release category	ERC4, ERC5

**Activities covered:**

Preparing (mixing, adjusting), transferring/loading, application by dipping, rinsing, drying and curing of coating material

**Contributing scenarios:**

spERC x2	Electrodeposition coating: loss via ultrafiltrate dumping, anolyte dumping and rinsing
PROC4 (covering PROC2)	Applicable for: Drying and curing of coatings
PROC5 (covering PROC3)	Applicable for: Mixing of components, adjustment
PROC8a (covering PROC8b)	Transfer of substance or preparation (charging/discharging)
PROC13	Treatment of articles by dipping and pouring

**Assessment method:**

CEPE spERC concept  
ECETOC TRA version 2.0

**2. Operational conditions and risk management measures****2.1. Contributing environmental scenario**

Preparing, transferring/loading, application by dipping, rinsing, drying and curing of coating material

**Process conditions**

Potential transfer to process waste water stream when withdrawing ultrafiltrate, anolyte, rinsing fluid

	M(sperc)	Transfer to water	Dissolution in water	Release after on-site WWTP	Municipal STP
spERC x2	Solids in paint	5%	5%	10%	yes
spERC x2	Volatiles in paint	5%	100%	100%	yes

**2.2. Contributing worker scenarios**

Preparing, transferring/loading, application by dipping, rinsing, drying and curing of coating material

	PROC	DOA	LEV/TRV	RPE	DPE
Mixing	5 (covering 3)	> 4 h	TRV	no	yes level 2
Transferring	8a (covering 8b)	> 4 h	TRV	no	yes level 2
Dipping	13	> 4 h	TRV	no	yes level 2
Curing	4 (covering 2)	> 4 h	TRV	no	yes level 2

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**Further specification**

Above parameters represent standard (default) assumptions according to CEPE mapping of operational conditions

**3. Exposure estimation and reference to its source**

Exposure assessment bases on initial scenarios for the used chemicals in this preparation as provided by manufactuters and importers. Identification of a lead substance indicator per route is based on the DPD+ methodology, taking into account content, dustiness and hazard characteristics. Use of the mixture is considered safe when conditions for safe use of the lead substance indicator are respected. Risk assessment is not applicable as long as no initial exposure scenarios are available.

**3.1. Environmental assessment**

No relevant ecotoxicological impact expected; specific description and assessment of environmental exposure obsolete;

**3.2. Worker assessment**

Preparing, transferring/loading, application by dipping, rinsing, drying and curing of coating material

	PROC	Route	LSI	LSI % range	DOA	LEV TRV	/	RPE	DPE	DNEL	RCR
Mixing	5 (covering 3)	Inhalation	triethylamine	>1-5	> 4hr	Technical room ventila- tion		none	—	—	—
		Skin	triethylamine	>1-5	> 4hr	—		—	Resistant gloves, training	—	—
Transferring	8a (covering 8b)	Inhalation	triethylamine	>1-5	> 4hr	Technical room ventila- tion		none	—	—	—
		Skin	triethylamine	>1-5	> 4hr	—		—	Resistant gloves, training	—	—
Dipping	13	Inhalation	triethylamine	>1-5	> 4hr	Technical room ventila- tion		none	—	—	—
		Skin	triethylamine	>1-5	> 4hr	—		—	Resistant gloves, training	—	—
Curing	4 (covering 2)	Inhalation	triethylamine	>1-5	> 4hr	Technical room ventila- tion		none	—	—	—
		Skin	triethylamine	>1-5	> 4hr	—		—	Resistant gloves, training	—	—

**Further specification**

Above exposure assessment is performed for coating material as supplied. Exposure assessment requires adaptation to ready for use mixture (dispersion, pigment paste and water)

Part 4 is common and is available at the end of the Annex.

**1. Exposure scenario (type 3) for sanding****Free short title:**

Industrial sanding of cured coating

**Systematic title based on use descriptors:**

Sector of use	SU 3
Product category	PC9a, PC9b
Process category	PROC24
Environmental release category	ERC12a



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### Activities covered:

Sanding of cured coating

### Contributing scenarios:

spERC x4  
PROC24

Wet sanding/wet dust collection in serial production  
Applicable for: Sanding, grinding or chipping of cured coating film

### Assessment method:

CEPE spERC concept  
ECETOC TRA version 2.0  
DuPont Expert judgement (EJ)

## 2. Operational conditions and risk management measures

### 2.1. Contributing environmental scenario

Sanding of cured coating

#### Process conditions

Potential transfer to process waste water stream when applying wet sanding techniques or wet dust collection

	M(sperc)	Transfer to water	Dissolution in water	Release after on-site WWTP	Municipal STP
spERC x4 (solids)	Solids in dry film	2%	10%	10%	yes

### 2.2. Contributing worker scenarios

Sanding of cured coating

	PROC	DOA	LEV/TRV	RPE	DPE
Sanding	24	> 4 h	LEV	no	yes level 2

### Further specification

Above parameters represent standard (default) assumptions according to CEPE mapping of operational conditions

## 3. Exposure estimation and reference to its source

Exposure assessment bases on initial scenarios for the used chemicals in this preparation as provided by manufacturers and importers. Identification of a lead substance indicator per route is based on the DPD+ methodology, taking into account content, dustiness and hazard characteristics. Use of the mixture is considered safe when conditions for safe use of the lead substance indicator are respected. Risk assessment is not applicable as long as no initial exposure scenarios are available.

### 3.1. Environmental assessment

No relevant ecotoxicological impact expected; specific description and assessment of environmental exposure obsolete;

### 3.2. Worker assessment

No relevant toxicological impact expected; specific description and assessment of worker exposure obsolete;

### Further specification

Above exposure assessment is performed for dry content of coating material as supplied. Exposure assessment requires adaptation to ready for use mixture (including reacted compounds where appropriate)

## 4. Guidance to downstream user to evaluate whether he works inside the boundaries set by the exposure scenario

By variation of operational conditions and risk management measures (scaling), a downstream user can check whether he works inside the exposure scenario boundaries.

Standard scaling can be based on exposure modifying factors as used by ECETOC TRA which are listed below.

$RCR(s) = RCR(o) * EMF(s)/EMF(o)$

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RCR(s) shall be  $< 1$ 

RCR(s) = scaled risk characterisation ratio; RCR(o) = original risk characterisation ratio (in part 3)

EMF(s) = exposure modifying factor selected for scaling; EMF(o) = original exposure modifying factor (in part 3)

Scaling may be used consecutively for multiple determinants.

Example: No technical room ventilation for mixing of tints (EMF(o) = 0.3), duration of activity restricted to 1 h/d (EMF(s) = 0.2)

**Specific scaling may be based on measured values at the individual site.**

Content % range	Content Factor	DOA h	DOA Factor	Respiratory protection equipment	Factor	Skin protection equipment	Factor
> 25	1	> 4	1	No RPE	1	No gloves	1
5 - 25	0.6	1 - 4	0.6	Filter mask	0.1	Suitable gloves	0.2
1 - 5	0.2	0.25-1	0.2	Air-fed mask	0.05	Resistant gloves, training	0.1
< 1	0.1	<0.25	0.1			Resistant gloves, specific training	0.05
						Resistant gloves, specific training, intensive supervision	0.02

PROC	TRV	LEV Ind	LEV Derm
2	0.3	0.1	0.1
3	0.3	0.1	0.1
4	0.3	0.1	0.1
5	0.3	0.1	0.005
8a	0.3	0.1	0.01
8b	0.3	Sol 0.05	0.1
8b	0.3	Vol 0.03	0.1
13	0.3	0.1	0.05
24		0.2	0.1

PROC	Factor	PROC	Factor (Ind.)
4 (high volatility)	1	2 (high volatility)	0.5
5 (high volatility)	1	3 (high volatility)	0.4
8a (high volatility)	1	8b (high volatility)	0.6
4 (medium volatility)	1	2 (medium volatility)	0.5
5 (medium volatility)	1	3 (medium volatility)	0.5
8a (medium volatility)	1	8b (medium volatility)	1
4 (low volatility)	1	2 (low volatility)	0.2
5 (low volatility)	1	3 (low volatility)	0.6
8a (low volatility)	1	8b (low volatility)	0.5

**Good practice advice**

Use by private end consumers (SU 21) not considered as product is assigned for industrial use only.

Wide dispersive use (ERC 8a-8f) not assessed

Environmental assessment based on ACEA sector specific ERC approach (spERC factors for solids and volatiles)

Environmental assessment only relevant in case of substance transfer into a waste water stream

No relevant substance transfer expected to marine water, sediment, or soil due to use in dedicated installations.

The spERC approach is only applicable to demonstrate safe use of a substance for environmental aspects under REACH.

It is not suitable to demonstrate compliance with applicable local waste water regulations.

Ingestion (oral route) not assessed as not considered to occur in case of industrial / professional use

Hazards due to particle shape negligible due to inclusion into polymer matrix (silicogenic or similar compounds)

Exposure assessment is performed for coating material as supplied.

Adaptation may be required for ready for use mixture.

Loss during service life negligible, in any case less than 1 %

Waste stage not assessed as incineration / biological treatment of waste and safe deposition of inert residues is assumed

Use for coating of toys, articles designed for prolonged skin contact or indirect food contact needs further assessment

No SVHC above declaration threshold contained unless disclosed in section 3 of SDS

**Following advice shall be pursued as long as exposure assessment in part 3 does not contain sufficient information**

Recommendation to use technical room ventilation.

Advice to wear skin/eye protection as standard RMM due to risk of splashes/droplets.

Advice to use integrated dust evacuation, in case of air recirculation in accordance to EN 60335.

Advice to use local exhaust ventilation according to EN 15012 for welding of coated substrates.

Advice to provide spill retention system according to applicable regulation.

Recommendation to avoid contact with water.

Recommendation to use respiratory protection equipment when sanding, even in combination with integrated dust evacuation.



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### Standardised use descriptors according European Chemical Agency (ECHA) Guidance on information requirements and chemical safety assessment, chapter R.12

SU 3	Industrial uses: Uses of substances as such or in preparations at industrial sites
PC9a	Coatings and paints, thinners, paint removers
PC9b	Fillers, putties, plasters, modelling clay
PROC2	Use in closed, continuous process with occasional controlled exposure
PROC3	Use in closed batch process (synthesis or formulation)
PROC4	Use in batch and other process (synthesis) where opportunity for exposure arises
PROC5	Mixing or blending in batch processes for formulation of preparations and articles (multi-stage and/ or significant contact)
PROC8a	Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities
PROC8b	Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities
PROC13	Treatment of articles by dipping and pouring
PROC24	High (mechanical) energy work-up of substances bound in materials and/ or articles
ERC4	Industrial use of processing aids in processes and products, not becoming part of articles
ERC5	Industrial use resulting in inclusion into or onto a matrix
ERC12a	Industrial processing of articles with abrasive techniques (low release)

### Glossary

SU	Sector of use
PC	Product category
PROC	Process category
ERC	Environmental release category
AC	Article category
spERC	Sector specific environmental release category (for ACEA uses)
CEPE	European council of producers and importers of paints, printing inks and artists' colours
OC	Operational condition
DOA	Duration of activity
LEV	Local exhaust ventilation
TRV	Technical room ventilation
RMM	Risk Management Measures
RPE	Respiratory protection equipment
DPE	Dermal protection equipment
WWTP	Waste water treatment plant (on-site)
STP	Sewage treatment plant (municipal)
SVHC	Substance of very high concern
LSI	Lead substance indicator
M(sperc)	Maximum volume of lead substance which can be used safely under conditions described by CEPE spERC
DNEL	Derived No Effect Level
DMEL	Derived minimum effect level
PNEC	Predicted No Effect Concentration
ECETOC TRA	Targeted risk assessment as proposed by European center for ecotoxicology and toxicology of chemicals
RCR	Risk characterisation ratio