

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

### 1.1. Product identifier

**Product name** CS215 PERCOTOP(R) DRYING ACCELERATOR  
**Product code** CS215

### 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, SU 22  
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 Axalta Coating Systems Germany GmbH  
Street/Box Horbeller Str. 15  
Nat.-Code/Postal code/City DE 50858 Köln  
Telephone +49(0) 2234 6019-01

#### Information on SDS

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

### 1.4. Emergency telephone

Emergency telephone number of manufacturer +(44)-870-8200418

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

<http://www.axaltacoatingsystems.com>

## Section 2. Hazards identification

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

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

### 2.1. Classification of the substance or mixture

#### Classification of the mixture

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

Classification : Harmful; Corrosive; Flammable;  
[R10] Flammable. [R21] Harmful in contact with skin. [R34] Causes burns. [R67] Vapours may cause drowsiness and dizziness.

##### According to Regulation (EC) No 1272/2008

Flam. Liq. 3, H226; Acute Tox. 4, H312; Skin Corr. 1B, H314; Eye Dam. 1, H318; STOT SE 3, H336; EUH066;

### 2.2. Label elements

#### Labelling according to European Directive 1999/45/EC.

##### Symbol and indication of hazard.



C Corrosive

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



Contains | N,N,4-trimethylpiperazine-1-ethylamine; bis(2-dimethylaminoethyl)(methyl)amine.

### R-phrases(s)

R10	Flammable.
R21	Harmful in contact with skin.
R34	Causes burns.
R67	Vapours may cause drowsiness and dizziness.

### S-phrases(s)

S23	Do not breathe vapour.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### Labelling according to Regulation (EC) No 1272/2008.

#### Pictogram and Signal word of the product



Signal word: Danger

#### Hazardous components which must be listed on the label

Contains	n-butyl acetate N,N,4-trimethylpiperazine-1-ethylamine bis(2-dimethylaminoethyl)(methyl)amine
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#### Hazard statements

H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

#### Precautionary statements

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260	Do not breathe dust or mist.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/ physician.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

### 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).

Restricted to professional users.

## 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 and solvents

#### Hazardous components

##### Substances presenting a health or environmental hazard within the meaning of Directive 67/548/EEC.

CAS 123-86-4	n-butyl acetate	
EC 204-658-1	REACH 01-2119485493-29	75.00 - < 85.00 %
Classification	R10; R66; R67	
CAS 104-19-8	N,N,4-trimethylpiperazine-1-ethylamine	
EC 203-183-7	REACH no registration number available	15.00 - < 20.00 %
Classification	T: R24; C: R34; Xn: R22	
CAS 3030-47-5	bis(2-dimethylaminoethyl)(methyl)amine	
EC 221-201-1	REACH no registration number available	5.00 - < 7.00 %
Classification	T: R24; Xn: R22; C: R34	

##### Substances presenting a health or environmental hazard within the meaning of Regulation (EC) No 1272/2008

CAS 123-86-4	n-butyl acetate	
EC 204-658-1	REACH 01-2119485493-29	75.00 - < 85.00 %
Classification	Flam. Liq. 3, H226; STOT SE 3, H336; EUH066;	
CAS 104-19-8	N,N,4-trimethylpiperazine-1-ethylamine	
EC 203-183-7	REACH no registration number available	15.00 - < 20.00 %
Classification	Acute Tox. 4, H302; Acute Tox. 3, H311; Skin Corr. 1B, H314;	
CAS 3030-47-5	bis(2-dimethylaminoethyl)(methyl)amine	
EC 221-201-1	REACH no registration number available	5.00 - < 7.00 %
Classification	Acute Tox. 4, H302; Acute Tox. 3, H311; Skin Corr. 1B, H314;	

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

See full text of R-phrases in chapter 16.  
See full text of H-phrases in chapter 16.

## 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. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of Previn® or water.

### **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**

Universal aqueous film-forming foam, Carbon dioxide (CO<sub>2</sub>), Dry chemical, Water spray.

#### **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**

Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors.

#### **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. The storage and use of this product is subject to the requirements of the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR). Up to 50 litres of such highly flammable liquids may be stored in a work area provided they are kept in a fire-proof cupboard or bin. Larger quantities must be kept in a separate storeroom conforming to the structural requirements of the regulations. Further guidance is contained in the HSE ACOP L135, "Storage of Dangerous Substances." Do not store mixtures in metal containers because of the possibility of pressure build-up. Use glass or plastic as appropriate.

#### Advice on common storage

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

Do not store together with explosives, gases, oxidizing solids, products which form flammable gases in contact with water, oxidizing products, infectious products and radioactive products.

### 7.3. Specific end use(s)

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
123-86-4	n-butyl acetate	Workers	Inhalative	Long term	Systemic effects	100 mg/kg liq

## PNEC

No information available.

## Community / national occupational exposure limits

CAS-No.	Chemical Name	Time Source	Type	Value	Note
123-86-4	n-butyl acetate		STEL	966 mg/m <sup>3</sup>	
			STEL	200 ppm	
			TWA	724 mg/m <sup>3</sup>	
			TWA	150 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.

Chemical Name	Glove material	Glove thickness	Break through time
n-butyl acetate	Viton (R) <sup>®</sup>	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 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<sup>®</sup> 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.

### 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!

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**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: clear Odour: Odour is not perceptible.

**Important health, safety and environmental information**

Property	Value	Method
pH	pH cannot be measured due to less solubility in water.	
Melting point/freezing point	Not applicable.	
Boiling point/boiling range	124 °C	
Flash point	25 °C	DIN 53213/ISO 1523
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	11.7 hPa	
Vapour density	no data available	
Relative density	0.88 g/cm <sup>3</sup>	20 °C - DIN 53217/ISO 2811
Solubility(ies)		
Water solubility	immiscible	
Solubility in other solvents	miscible with most organic solvents Listed in: Section 3. Composition/information on ingredients	
Partition coefficient: n-octanol/water	This product is a mixture. For ingredient details see section 12	
Auto-ignition temperature	415 °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)	78.0 %	Basis Vapour pressure >= 0.01 kPa
organic solvent content	78.0 %	Basis Vapour pressure >= 0.01 kPa
European VOC	78.0 %	Basis Vapour pressure >= 0.1 hPa

**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.

**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.

# 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.

## 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 17	wastes from paint or varnish removal 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

Transport only in accordance with the requirements of the Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labeling), ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

### 14.1. UN number

ADR/RID; IMDG; ICAO/IATA: 2920

### 14.2. UN proper shipping name

ADR/RID; IMDG; ICAO/IATA: CORROSIVE LIQUID, FLAMMABLE, N.O.S.  
ADR/RID; IMDG; ICAO/IATA: [N,N,4-trimethylpiperazine-1-ethylamine; n-butyl acetate]

### 14.3. Transport hazard class(es)

#### Hazard class

ADR/RID; IMDG; ICAO/IATA: 8

#### Subsidiary hazard class

ADR/RID; IMDG; ICAO/IATA: 3

#### Labels



#### Tunnel restriction code

ADR/RID: D/E

#### Special Provisions

ADR/RID: no data available

#### Kemler Code

ADR/RID: 83

#### **Hazchem Code**

ADR/RID: 3W

#### **EmS**

IMDG: F-E,S-C

#### **14.4. Packaging group**

ADR/RID; IMDG; ICAO/IATA: II

#### **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.

Restricted to professional users.

#### **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

R10	Flammable.
R22	Harmful if swallowed.
R24	Toxic in contact with skin.
R34	Causes burns.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

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

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
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 793/93/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
1.0	

Revision Date: 2015-03-03

## Annex - Exposure scenarios

### Consolidated exposure assessment for industrial and professional use of coating material

The consolidated exposure assessment 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. Compliance with operational conditions and risk management measures is required if the exposure assessment is annexed to a mandatory safety data sheet. In this case, identified risk management measures are to be implemented unless the downstream user is able to ensure safe use in a diverging way.

#### 1. Consolidated exposure assessment (type 1) for spray application of activators

##### Free short title:

Industrial or professional application of activators for 2K spray coating material (professional use in close to industrial setting)

##### Systematic title based on use descriptors:

Sector of use	SU 22, SU 3
Product category	PC9a, PC9b
Process category	PROC4 (covering PROC2), PROC5 (covering PROC3), PROC8a (covering PROC8b), PROC7 or PROC11
Environmental release category	ERC4, ERC5, ERC6d

##### Activities covered:

Preparing (adding activator), transferring/loading, application by spraying, drying and curing of coating material

##### Contributing scenarios:

spERC x1	Spray coating including purge loss
PROC4 (covering PROC2)	Applicable for: Adding of activator Transfer of substance or preparation (charging/discharging) Industrial spraying Non industrial spraying
PROC5 (covering PROC3)	
PROC8a (covering PROC8b)	
PROC7	
PROC11	

### 2. Operational conditions and risk management measures

#### 2.1. Contributing environmental scenario

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

##### Process conditions:

Potential transfer to process waste water stream when using Venturi wet scrubber for collecting overspray

	M(sperc)	Transfer to process waste water	Release after on-site WWTP	Municipal STP
spERC x1	Solids in paint	40%	10%	
spERC x1	Volatiles in paint	100%	100%	

#### 2.2. Contributing worker scenarios

Preparing, transferring/loading, application by spraying, 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
Non-industrial spraying	11	> 4 h	LEV	yes due to aerosol	yes level 2
Industrial spraying	7	> 4 h	LEV	yes due to aerosol	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 Valid information on risk management measures for specific formulation is provided in part 3. Deviation options are explained in part 4 (scaling).

**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 coating material as supplied. Exposure assessment requires adaptation to ready for use mixture (review paint and/or diluant) Hazards of activator compounds are obsolete after film formation of 2K coating

**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.

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

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	
> 25	1	> 4	1	No RPE	1	
5 - 25	0.6	1 - 4	0,6	Filter mask	0,1	Level 1
1 - 5	0.2	0,25-1	0,2	Air-fed mask	0,05	Level 2
< 1	0.1	<0,25	0,1			

Skin protection equipment	Factor	
No gloves	1	
Suitable gloves	0,2	Level 1
Resistant gloves, training	0,1	Level 2
Resistant gloves, specific training	0,05	Level 3

PROC	Factor for TRV	Factor for LEV Industrial setting	Factor for LEV Professional setting	Factor for LEV Dermal impact
2	0.3	0.1	0.2	0.1
3	0.3	0.1	0.2	0.1
4	0.3	0.1	0.2	0.1
5	0.3	0.1	0.2	0.005
7		0.05	n.a.	0.05
8a	0.3	0.1	0.2	0.01
8b	0.3	Sol 0.05	Sol 0.2	0.1
8b	0.3	Vol 0.03	Vol 0.1	0.1
11		n.a.	0.2	0.02

**SAFETY DATA SHEET**

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



PROC	Factor	PROC	Adjusted factor Professional	Adjusted factor Industrial
4 (high volatility)	1	2 (high volatility)	0.2	0.5
5 (high volatility)	1	3 (high volatility)	0.2	0.4
8a (high volatility)	1	8b (high volatility)	0.5	0.6
4 (medium volatility)	1	2 (medium volatility)	0.4	0.5
5 (medium volatility)	1	3 (medium volatility)	0.25	0.5
8a (medium volatility)	1	8b (medium volatility)	0.5	1
4 (low volatility)	1	2 (low volatility)	0.5	0.2
5 (low volatility)	1	3 (low volatility)	0.3	0.6
8a (low volatility)	1	8b (low volatility)	0.4	0.5

**Additional explanation**

Use by private end consumers (SU 21) not considered as product is assigned for professional use only  
 Wide dispersive use (ERC 8a-8f) not assessed as professional use in paintshops is considered as non dispersive (point source)  
 No relevant substance transfer expected to marine water, sediment, or soil due to use in dedicated installations.  
 Environmental assessment only relevant in case of substance transfer into a waste water stream  
 Environmental assessment based on ACEA sector specific ERC approach (spERC factors for solids and volatiles)  
 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  
 Worker exposure assessment based on DNELs is only applicable to demonstrate safe use of substances under REACH.  
 It is not suitable to demonstrate compliance with applicable occupational exposure limits (as displayed in section 8 of SDS).  
 Occupational exposure limits may apply for residual monomers (e.g. formaldehyde, monomeric isocyanates) which are not assessed under REACH.  
 Exposure assessment is performed for coating material as supplied.  
 Adaptation may be required for ready for use mixture.  
 Exposure assessment is performed for application of coating material at ambient temperature.  
 Adaptation may be required for application at elevated temperature (e.g. hot spraying).  
 No service life relevance for reactive compounds.  
 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

**Good practice advice****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 on respiratory protection equipment for PROC 7, 11 is based on Axalta expert judgement  
 Advice to use spray-booth or efficient exhaust ventilation.  
 Advice to wear respiratory protection equipment as standard RMM due to aerosol formation, even in ventilated booth.  
 Advice to provide spill retention system according to applicable regulation.

**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
SU 22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
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)
PROC7	Industrial spraying
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
PROC11	Non industrial spraying
ERC4	Industrial use of processing aids in processes and products, not becoming part of articles

## SAFETY DATA SHEET

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



ERC5	Industrial use resulting in inclusion into or onto a matrix
ERC6d	Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers

### 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)
ACEA	European automobile manufacturers association
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