

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

1.1. Product identifier

Product name CS603 PERCOTOP(R) THINNER FAST

Product code CS603

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 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 manu- +(44)-870-8200418

facturer

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: Irritant; dangerous for the environment; Flammable;

[R10] Flammable. [R36] Irritating to eyes. [R66] Repeated exposure may cause skin dryness or cracking. [R67] Vapours may cause drowsiness and dizziness. [R52/53] Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

According to Regulation (EC) No 1272/2008

Flam. Liq. 3, H226; Eye Irrit. 2, H319; STOT SE 3, H336; Repr. 1B, H360; Aquatic Chronic 3, H412; EUH066; EUH208;

2.2. Label elements

Labelling according to European Directive 1999/45/EC.

Symbol and indication of hazard.





Xi Irritant

R-phrase(s)

R10 Flammable. R36 Irritating to eyes.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic envi-

ronment.

Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

S-phrase(s)

S23 Do not breathe vapour.

S38 In case of insufficient ventilation, wear suitable respiratory equipment.

Special labelling of certain mixtures

Contains: dibutylbis((1-oxododecyl)oxy)stannane. May produce an allergic reaction.

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-butanol

1,2,4-trimethylbenzene

dibutylbis((1-oxododecyl)oxy)stannane

Hazard statements

H226
 H319
 H336
 H360
 H412
 Flammable liquid and vapour.
 Causes serious eye irritation.
 May cause drowsiness or dizziness.
 May damage fertility or the unborn child.
 H412
 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH208 Contains: dibutylbis((1-oxododecyl)oxy)stannane; May produce an allergic reaction.

Precautionary statements

P201 Obtain special instructions before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing dust/ vapours/ spray.
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.

P337 + P313 If eye irritation persists: Get medical advice/ attention.
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 EC 204-658-1 Classification	n-butyl acetate REACh 01-2119485493-29 R10; R66; R67	65.00 - < 75.00 %
CAS 108-65-6 EC 203-603-9 Classification	2-methoxy-1-methylethyl acetate REACh 01-2119475791-29 R10; Xi: R36	15.00 - < 20.00 %
CAS 112-07-2 EC 203-933-3 Classification	2-butoxyethyl acetate REACh 01-2119475112-47 Xn: R20/21/22	3.00 - < 5.00 %
CAS 64742-95-6 EC 265-199-0 Classification	solvent naphtha (petroleum), light arom. (<0,1% benzene) REACh 01-2119455851-35 R10; Xi: R37; N: R51/53; Xn: R65; R66; R67; NotaH; NotaP	2.00 - < 2.50 %
CAS 95-63-6 EC 202-436-9 Classification	1,2,4-trimethylbenzene REACh no registration number available R10; Xn: R20; Xi: R36/37/38; N: R51/53	1.00 - < 2.00 %
CAS 71-36-3 EC 200-751-6 Classification	n-butanol REACh 01-2119484630-38 R10; Xi: R37/38; Xn: R22; R67; Xi: R41	1.00 - < 2.00 %
CAS 108-67-8 EC 203-604-4 Classification	mesitylene REACh no registration number available R10; Xi: R37; N: R51/53	0.25 - < 0.50 %
CAS 77-58-7 EC 201-039-8 Classification	dibutylbis((1-oxododecyl)oxy)stannane REACh no registration number available T: R48/25; N: R50/53; Repr.Cat.2: R60; Repr.Cat.2: R61; Mut.Cat.3: R68; Xi: R43; C: R34	0.25 - < 0.50 %
CAS 103-65-1 EC 203-132-9 Classification	n-propylbenzene REACh no registration number available R10; Xn: R65; Xi: R37; N: R51/53; NotaC	0.10 - < 0.20 %

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

CAS 123-86-4 EC 204-658-1 Classification	n-butyl acetate REACh 01-2119485493-29 Flam. Liq. 3, H226; STOT SE 3, H336; EUH066;	65.00 - < 75.00 %
CAS 108-65-6 EC 203-603-9 Classification	2-methoxy-1-methylethyl acetate REACh 01-2119475791-29 Flam. Liq. 3, H226; Eye Irrit. 2, H319;	15.00 - < 20.00 %
CAS 112-07-2 EC 203-933-3 Classification	2-butoxyethyl acetate REACh 01-2119475112-47 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332;	3.00 - < 5.00 %



CAS EC Classif	64742-95-6 265-199-0 fication	solvent naphtha (petroleum), light arom. (<0,1% benzene) REACh 01-2119455851-35 Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H335; STOT SE 3, H336; Aquatic Chronic 2, H411; EUH066; Note H (Table 3.1); Note P;	2.00 - <	2.50 %
CAS EC Classif	71-36-3 200-751-6 fication	n-butanol REACh 01-2119484630-38 Flam. Liq. 3, H226; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; STOT SE 3, H335; STOT SE 3, H336;	1.00 - <	2.00 %
CAS EC Classif	95-63-6 202-436-9 fication	1,2,4-trimethylbenzene REACh no registration number available Flam. Liq. 3, H226; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Acute Tox. 4, H332; STOT SE 3, H335; Aquatic Chronic 2, H411;	1.00 - <	2.00 %
EC	77-58-7 201-039-8 fication	dibutylbis((1-oxododecyl)oxy)stannane REACh 01-2119496068-27 Skin Corr. 1B, H314; Skin Sens. 1, H317; Eye Dam. 1, H318; Muta. 2, H341; Repr. 1B, H360FD; STOT SE 1, H370; STOT RE 1, H372; Aquatic Acute 1, H400; Aquatic Chronic 1, H410;	0.25 - <	0.50 %

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. 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

Universal aqueous film-forming foam, Carbon dioxide (CO2), 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

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

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."

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

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

8.1. Control parameters

DNEL

CAS-No.	Chemical Name	End Use	Exposure routes	Fre- quency of exposure	Туре	Value
123-86-4	n-butyl acetate	Workers	Inhalative	Long term	Systemic effects	100 mg/kg lig
108-65-6	2-methoxy-1-methylethyl acetate	Workers Workers	Dermal Inhalative	Long term Long term	-,	153.5 mg/kg/day 50.132 mg/kg liq
112-07-2	2-butoxyethyl acetate	Workers Workers	Dermal Inhalative	Long term Long term	Systemic effects Systemic effects	102 mg/kg/day 20 mg/kg liq
64742-95-6	solvent naphtha (petroleum), light arom. (<0,1% benzene)	Workers	Dermal	Long term	Systemic effects	25 mg/kg/day
	,	Workers	Inhalative	Long term	Systemic effects	30.1 mg/kg liq
71-36-3	n-butanol	Workers	Inhalative	Long term	Systemic effects	100 mg/kg lia

PNEC

CAS-No.	Chemical Name	Compartment	Type	Value
112-07-2	2-butoxyethyl acetate	Aquatic	Sediment	2.03 mg/l
		Aquatic	Fresh water	0.304 mg/l
		Aquatic	Sea-water	0.304 mg/l
71-36-3	n-butanol	Aquatic	Sediment	0.015 mg/kg
		Aquatic	Fresh water	0.178 mg/l
		Aquatic	Sea-water	0.0178 mg/l

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Community / national occupational exposure limits

CAS-No.	Chemical Name	Source	Time	Туре	Value	Note
123-86-4	n-butyl acetate			STEL	966 mg/m3	
				STEL	200 ppm	
				TWA	724 mg/m3	
				TWA	150 ppm	
108-65-6	2-methoxy-1-methylethyl acetate		15 min	IOELV15	5 550 mg/cm3	Skin
			15 min	IOELV15	5 100 ppm	Skin
			8 hr	IOELV8	275 mg/cm3	Skin
			8 hr	IOELV8	50 ppm	Skin
				STEL	548 mg/m3	
				STEL	100 ppm	
				TWA	274 mg/m3	
				TWA	50 ppm	
112-07-2	2-butoxyethyl acetate		15 min	IOELV	333 mg/m3	Skin
			15 min	IOELV	50 ppm	Skin
			8 hr	IOELV	133 mg/m3	Skin
			8 hr	IOELV	20 ppm	Skin
			15 min	STEL	50 ppm	
			8 hr	TWA	20 ppm	
95-63-6	1,2,4-trimethylbenzene		8 hr	IOELV8	100 mg/cm3	
			8 hr	IOELV8	20 ppm	
				TWA	125 mg/m3	
				TWA	25 ppm	
71-36-3	n-butanol			STEL	154 mg/m3	
				STEL	50 ppm	
108-67-8	mesitylene		8 hr	IOELV8	100 mg/cm3	
			8 hr	IOELV8	20 ppm	
				TWA	125 mg/m3	
				TWA	25 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) ®	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 min
2-butoxyethyl acetate	Viton (R) ®	0.7 mm	480 m
	Nitrile rubber	0.33 mm	480 m
solvent naphtha (petroleum), light arom. $(<0,1\%$ benzene)	Viton (R) ®	0.7 mm	30 min
n-butanol	Viton (R) ®	0.7 mm	480 min
	Nitrile rubber	0.33 mm	480 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.

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

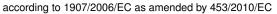
9.1. Information on basic physical and chemical properties

Appearance

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

Important health, safety and environmental information

Property	Value	Method
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DIN 53213/ISO 1523

20 °C - DIN 53217/ISO 2811

pH no data available
Melting point/freezing point
Boiling point/boiling range no data available
Not applicable.
140 ° C

Flash point 25 °C

Evapouration rate Slower than Ether not relevant as product is liquid

Lower explosion limit
Upper explosion limit
1.2 vol-% based on organic solvent content
12 vol-% based on organic solvent content

Vapour pressure 11.5 hPa volvation vapour density no data available Relative density $0.9 \ g/cm^3$

Solubility(ies)
Water solubility appreciable

Solubility in other solvents miscible with most organic solvents Listed in: Section

3. Composition/information on ingredients

Partition coefficient: This product is a mixture. For ingredient details see

n-octanol/water section 12

Auto-ignition temperature $272\,^{\circ}\mathrm{C}$ DIN 51794 based on organic solvent

content

Decomposition temperature This product is a mixture. For further information see

section 10.

Viscosity (23 $^{\circ}$ C) | <20 s | ISO 2431 - 1993 6 mm

Explosive properties Not explosive not oxidizing

9.2. Other data

Solvent separation test < 3% ADR/RID

Content of volatile components (including water)

organic solvent content Purpose NVOC

95.6 % Basis Vapour pressure >= 0.01 kPa

Basis Vapour pressure >= 0.01 kPa

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.

Acute toxicity

Acute inhalation toxicity

EINECS-No.	Chemical Name	Species	Туре	Expo- sure time	Value	Method	
202-436-9	1,2,4-trimethylbenzene	rat	LC50	4 h	18,000 mg/l		
Acute dermal	toxicity						
EINECS-No.	Chemical Name	Species	Туре	Expo- sure time	Value	Method	
203-933-3	2-butoxyethyl acetate	rabbit	LD50		1,490 mg/kg		
Acute oral toxicity							
EINECS-No.	Chemical Name	Species	Туре	Expo- sure time	Value	Method	
203-933-3 200-751-6	2-butoxyethyl acetate n-butanol	rat rat	LD50 LD50		1,600 mg/kg 790 mg/kg		

Subacute toxicity

2-butoxyethanol and its acetate are readily absorbed through the skin and will cause harmful effects on the blood.

irritant effects

201-039-8

The liquid splashed in the eyes may cause irritation and reversible damage.

dibutylbis((1-oxododecyl)oxy)stannane

Sensitisation

Contains: dibutylbis((1-oxododecyl)oxy)stannane. May produce an allergic reaction.

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

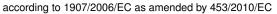
Aquatic toxicity

Acute toxicity aquatic invertebrates

EINECS-No.	Chemical Name	Species	Туре	Exposure time	Value Method
265-199-0	solvent naphtha (petroleum),	light Daphnia	EC50	24 h	170 mg/l
	arom. (<0,1% benzene)				

> 2,000 mg/kg

LD50





EINECS-No.	Chemical Name	Species	Type	Exposure time	Value Method
202-436-9	1,2,4-trimethylbenzene	Daphnia	LC50	48 h	6 mg/l
203-604-4	mesitylene	Daphnia	EC50	48 h	6 mg/l
201-039-8	dibutylbis((1- oxododecyl)oxy)stannane	Daphnia	EC50	48 h	1 mg/m3
203-132-9	n-propylbenzene	Daphnia	EC50	24 h	2 mg/l

Acute and extended toxicity of fishes

EINECS-No.	Chemical Name	Species	Туре	Exposure time	Value Method	
265-199-0	solvent naphtha (petroleum), light arom. (<0,1% benzene)	t Danio rerio (ze- bra fish)	LC50	96 h	10 mg/l	_
202-436-9	1,2,4-trimethylbenzene	Oncorhynchus mykiss (rainbow trout)	EC50	96 h	9.22 mg/l	
203-604-4	mesitylene	Carassius auratus (goldfish)	LC50	96 h	12.5 mg/l	
201-039-8	dibutylbis((1- oxododecyl)oxy)stannane	Leuciscus idus (Golden orfe)	LC50	48 h	2 mg/l	
201-039-8	dibutylbis((1- oxododecyl)oxy)stannane	Danio rerio (ze- bra fish)	LC50	96 h	3.1 mg/l	

Toxicity with aquatic plants

EINECS-No.	Chemical Name	Speci	es Type	Exposure time	Value Method
265-199-0	solvent naphtha (petroleum),	light Algae	EC50	72 h	10 mg/l
	arom. (<0.1% benzene)				

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 has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See sections 2 and 3 for details.

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

SAFETY DATA SHEET

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



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: 1263

14.2. UN proper shipping name

ADR/RID; IMDG; ICAO/IATA: PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

Hazard class

ADR/RID; IMDG; ICAO/IATA: 3

Subsidiary hazard class

ADR/RID; IMDG; ICAO/IATA: Not applicable.

Labels



Tunnel restriction code

ADR/RID: D/E

Special Provisions

ADR/RID: 640E

Kemler Code

ADR/RID: 30

Hazchem Code

ADR/RID: 3Y

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



EmS

IMDG: F-E,S-E

14.4. Packaging group

ADR/RID; IMDG; ICAO/IATA: III

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.

R20 Harmful by inhalation.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R22 Harmful if swallowed.
R34 Causes burns.
R36 Irritating to eyes.

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

R37 Irritating to respiratory system.
R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

R48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed.



R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R60	May impair fertility.
R61	May cause harm to the unborn child.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.
R68	Possible risk of irreversible effects.

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

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects if inhaled.
H360FD	May damage fertility. May damage the unborn child.
H372	Causes damage to the kidneys/ liver/ eyes/ brain/ digestive system/ central nervous sys-
	tem through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Information taken from reference works and the literature.

Substance No.	CAS no: www.cas.org./EO/regsys.html EC no: http://ecb.jrc.it/esis/index.php?PGM=ein
Substances presenting a health or environmental hazard within the meaning of Directive 67/548/EEC.	http://ecb.jrc.it/existing-chemicals/ http://ecb.jrc.it/classification-labelling/ http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB http://www.cdc.gov/niosh/ipcs/icstart.html
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: http://europa.eu.int/eur-lex/lex
Exposure limit for the pure substance	http://osha.europa.eu/OSHA

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

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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 13.0 3, 9, 16

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 application of solvents for diluting

Free short title:

Industrial or professional application of diluant or additive solution for spray, dip or other 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

Process category PROC4 (covering PROC2), PROC5 (covering PROC3),

PROC8a (covering PROC8b), PROC10, PROC7 or

PROC11, PROC13

Environmental release category ERC4

Activities covered:

Preparing (adjusting viscosity), transferring/loading, application by spraying or dipping and pouring or rolling and brushing, drying of coating material

Contributing scenarios:

spERC x1 Spray coating including purge loss PROC4 (covering PROC2)

PROC5 (covering PROC3)
PROC8a (covering PROC8b)
Applicable for: Adjustment of viscosity
Transfer of substance or preparation (charging/discharging)

PROC10 Roller application or brushing

PROC7 Industrial spraying Non industrial spraying

PROC13 Treatment of articles by dipping and pouring

2. Operational conditions and risk management measures

2.1. Contributing environmental scenario

Preparing, transferring/loading, application by spraying or dipping and pouring or rolling and brushing, drying 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 or dipping and pouring or rolling and brushing, drying 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



	PROC	DOA	LEV/TRV	RPE	DPE
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
Rolling	10	> 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

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 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

Assessment method:

ACEA spERC concept

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

	LSI (aquatic)	LSI % range	M(sperc)	Trans- fer to process waste water	Release after on-site WWTP	Release after mu- nicipal STP	Dilution factor	Receiving body	PNEC sur- face water
spERC x1a	dibutylbis((1-	> 0%	_	40%	10%	10%	5	18,000	-
(solids)	oxododecyl)oxy)stannan	e						m^3 /d	
spERC x1a	· ·	> 1%	_	100%	100%	10%	1	18,000	_
(volatiles)	(petroleum), light arom.							m^3 /d	
	(<0,1% benzene)								
spERC x1b	dibutylbis((1-	> 0%	_	70%	10%	10%	5	18,000	_
(solids)	oxododecyl)oxy)stannan	e						m^3 /d	
spERC x1b	solvent naphtha	> 1%	_	100%	100%	10%	1	18,000	_
(volatiles)	(petroleum), light arom.							m^3 /d	
	(<0,1% benzene)								

3.2. Worker assessment

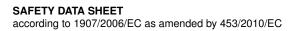
Assessment method:

ECETOC TRA version 3.0

Advice on respiratory protection equipment for PROC 7, 11 and on dermal protection equipment is based on Axalta expert judgement

Preparing, transferring/loading, application by spraying or dipping and pouring or rolling and brushing, drying of coating material - professional setting

	PROC	Route	LSI	LSI %	DOA	LEV /	RPE	DPE	DNEL	RCR
				range		TRV				
Mixing	5 (covering 3)	Inhalation	n-butyl acetate	> 25%	> 4hr	Technical	none	-	100	0.30
						room				
						ventila-				
						tion				
		Skin	dibutylbis((1-	> 0%	> 4hr	_	-	Resistant	_	_
			oxododecyl)oxy):	stannane				gloves,		
								training		





	PROC	Route	LSI	LSI % range	DOA	LEV /	RPE	DPE	DNEL	RCR
Transferring	8a (covering 8b)	Inhalation	n-butyl acetate	> 25%	> 4hr	Technical room ventila- tion	none	_	100	0.30
		Skin	dibutylbis((1- oxododecyl)oxy)	> 0% stannane	> 4hr	_	_	Resistant gloves, training	_	_
Non- industrial spraying	11	Inhalation	n-butyl acetate	> 25%	> 4hr	Local exhaust ventila- tion	Filter mask (90% effi- cient)	_	100	0.10
		Skin	dibutylbis((1- oxododecyl)oxy)	> 0% stannane	> 4hr	_	′	Resistant gloves, training	_	_
Rolling	10	Inhalation	n-butyl acetate	> 25%	> 4hr	Technical room ventila- tion	none	_	100	0.30
		Skin	dibutylbis((1- oxododecyl)oxy)	> 0% stannane	> 4hr	_	_	Resistant gloves, training	_	_
Dipping	13	Inhalation	n-butyl acetate	> 25%	> 4hr	Technical room ventila- tion	none	_	100	0.30
		Skin	dibutylbis((1- oxododecyl)oxy)	> 0% stannane	> 4hr	_	_	Resistant gloves, training	_	_
Curing	4 (covering 2)	Inhalation	n-butyl acetate	> 25%	> 4hr	Technical room ventila- tion	none	_	100	0.15
		Skin	dibutylbis((1- oxododecyl)oxy)	> 0% stannane	> 4hr	_	_	Resistant gloves, training	_	_

Preparing, transferring/loading, application by spraying or dipping and pouring or rolling and brushing, drying of coating material - industrial setting

	PROC	Route	LSI	LSI % range	DOA	LEV /	RPE	DPE	DNEL	RCR
Mixing	5 (covering 3)	Inhalation	n-butyl acetate	> 25%	> 4hr	Technical room ventila- tion	none	_	100	0.30
		Skin	dibutylbis((1- oxododecyl)oxy)	> 0% stannane	> 4hr	_	_	Resistant gloves, training	_	_
Transferring	8a (covering 8b)	Inhalation	n-butyl acetate	> 25%	> 4hr	Technical room ventila- tion	none	_	100	0.30
		Skin	dibutylbis((1- oxododecyl)oxy)	> 0% stannane	> 4hr	_	_	Resistant gloves, training	_	_
Industrial spraying	7	Inhalation	n-butyl acetate	> 25%	> 4hr	Local exhaust ventila- tion	Air- fed mask (95% effi- cient)	_	100	_
		Skin	dibutylbis((1- oxododecyl)oxy)	> 0% stannane	> 4hr	_	′	Resistant gloves, training	_	-

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	PROC	Route	LSI	LSI % range	DOA	LEV /	RPE	DPE	DNEL	RCR
Rolling	10	Inhalation	n-butyl acetate	> 25%	> 4hr	Technical room ventila- tion	none	_	100	0.30
		Skin	dibutylbis((1- oxododecyl)oxy)	> 0% stannane	> 4hr	_	_	Resistant gloves, training	_	_
Dipping	13	Inhalation	n-butyl acetate	> 25%	> 4hr	Technical room ventila- tion	none		100	0.30
		Skin	dibutylbis((1- oxododecyl)oxy)	> 0% stannane	> 4hr	_	_	Resistant gloves, training	_	_
Curing	4 (covering 2)	Inhalation	n-butyl acetate	> 25%	> 4hr	Technical room ventila- tion	none	_	100	0.15
		Skin	dibutylbis((1- oxododecyl)oxy)	> 0% stannane	> 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 (review paint and/or hardener). Hazards of diluants are obsolete after film formation of 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 modyfing 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		l	DOA	Respiratory protec-		
% range	Factor	h	Factor	tion equipment		
> 25	1	> 4	1		Factor	
5 - 25	0.6	1 - 4	0,6	No RPE	1	
1 - 5	0.2	0,25-1	0,2	Filter mask	0,1	Level 1
< 1	0.1	<0,25	0,1	Air-fed mask	0,05	Level 2

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
10	0.3	0.1	0.2	0.05
11		n.a.	0.2	0.02

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PROC	Factor for TRV	Factor for LEV Industrial setting	Factor for LEV Professional setting	Factor for LEV Dermal impact
13	0.3	0.1	0.2	0.05

PROC	Factor	PROC	Adjusted	Adjusted
			factor Pro-	factor In-
			fessional	dustrial
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 / professioonal 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

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 process aids.

Waste stage not assessed as incineration / biological treatment of waste and safe deposition of inert residues is assumed No SVHC above declaration threshold contained unless disclosed in section 3 of SDS

Good practice advice

assessed under REACH.

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 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
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 con-
	tainers at non-dedicated facilities
PROC8b	Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large con-
	tainers at dedicated facilities
PROC10	Roller application or brushing

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PROC11 Non industrial spraying

PROC13 Treatment of articles by dipping and pouring

ERC4 Industrial use of processing aids in processes and products, not becoming part of articles

Glossary

SU Sector of use PC Product category **PROC** Process category

ERC Environmental release category

Article category AC

spERC Sector specific environmental release category (for ACEA uses)

ACEA European automobile manufacturers association **AIRC** Federation of vehicle repair organisations

CEPE European council of producers and importers of paints, printing inks and artists' colours

OC Operational condition Duration of activity DOA LEV Local exhaust ventilation TRV Technical room ventilation RMMRisk Management Measures **RPE** Respiratory protection equipment DPE Dermal protection equipment **WWTP** Waste water treatment plant (on-site) Sewage treatment plant (municipal) STP

SVHC Substance of very high concern Lead substance indicator LSI

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 toxicol-

ogy of chemicals

RCR Risk characterisation ratio