

Trade name: INOBOND 665 Substance number: PP-00034

Version: 3 / WORLD Replaces Version: 2 / WORLD Date revised: 17.06.13 Print date: 27.09.13

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

1.1. Product identifier

Trade name

## **INOBOND 665**

## 1.2. Relevant identified uses of the substance or mixture and uses advised against Identified Uses \*\*\*

Binders for welding consumables (flux, stick electrodes)

SU15	Manufacture of fabricated metal products, except machinery and equipment
SU17	General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment
SU19	Building and construction work
PC38	Welding and soldering products (with flux coatings or flux cores), flux products
PROC2	Use in closed, continuous process with occasional controlled exposure
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 (multistage and/or significant contact)
PROC13	Treatment of articles by dipping and pouring
PROC25	Hot work operations with metals

Uses advised against \*\*\*

ΝΟΝΕ

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

#### Address

vanBaerle AG Schützenmattstrasse 21 4142 Münchenstein Telephone no. +41 61 415 92 11 Information provided by / telephone E-mail address of person responsible for this SDS

## **1.4. Emergency telephone number**

Swiss Toxicological Information Centre 145 51)

## 2. Hazards identification

## 2.1. Classification of the substance or mixture

#### Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Skin Irrit. 2	H315
Eye Irrit. 2	H319

(international 0041 44 251 51

## vanBaerle

Trade name: INOBOND 665

Substance number: PP-00034

Version: 3 / WORLD Replaces Version: 2 / WORLD Date revised: 17.06.13 Print date: 27.09.13



## Labelling according to regulation (EC) No 1272/2008

## Hazard pictograms



Signal word

Warning

#### Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.

### **Precautionary statements**

-	
P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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.

## Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC

The product is classified and labelled in accordance with EC Directive 99/45/EC. Labelling on the basis of results obtained from toxicological examinations.

## Hazard symbols



36/38 S phrases

26

Irritating to eyes and skin.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

## 3. Composition/information on ingredients \*\*\*

## **Chemical characterization**

Mixed silicate with a molar ratio Me2O : SiO2 = 1: > 2.60 - < 3.20

## Hazardous ingredients \*\*\*

 Silicic acid, potassium salt (Molar ratio K2O : SiO2 = 1 : > 2.6 - < 3.2)</th>

 CAS No.
 1312-76-1

 EINECS no.
 215-199-1

 Registration no.
 01-2119456888-17-0003

 Concentration
 25 - 50 %

 Classification
 Xi, R36/38



Trade name: INOBOND 66	5					
Substance number: PP-000	34	Versio	n: 3/WC	ORLD		Date revised: 17.06.13
		Replac	es Versio	on: 2/W	ORLD	Print date: 27.09.13
Classification (Rec	ulation (EC) No.	1272/2008	3)			
	Skin Irrit. 2		́ H315			
	Eye Irrit. 2		H319			
Lithium hvdroxide						
CAS No.	1310-65-2					
EINECS no.	215-183-4					
Concentration		1	-	5	%	
Classification	C, R35					
Classification (Rec	ulation (EC) No.	1272/2008	3)			
	Acute Tox. 4	4	́ H302			
	Skin Corr. 1	В	H314			
	Aquatic Chr	onic 3	H412			
Further ingredient	S ***					
Water						
CAS No.	7732-18-5					
EINECS no.	231-191-2					
Concentration		50	-	75	%	

## 4. First aid measures

## 4.1. Description of first aid measures

#### **General information**

No special measures necessary.

#### After inhalation

No special measures required.

#### After skin contact

After contact with skin, wash immediately with plenty of water. Do not allow the product to dry on the skin. Consult a doctor if skin irritation persists.

### After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

#### After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Summon a doctor immediately.

## 4.3. Indication of any immediate medical attention and special treatment needed Hints for the physician / hazards

This product contains alkali silicates.

## 5. Firefighting measures

## 5.1. Extinguishing media

## Suitable extinguishing media

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

### Non Suitable extinguishing media

Compatible with all usual extinguishing media.

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

## vanBaerle

Trade name: INOBOND 665

Substance number: PP-00034

Version: 3 / WORLD Replaces Version: 2 / WORLD

Date revised: 17.06.13 Print date: 27.09.13

None known

## **5.3.** Advice for firefighters

## Special protective equipment for fire-fighting

In case of combustion use a suitable breathing apparatus.

## 6. Accidental release measures

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

Use personal protective clothing. High risk of slipping due to leakage/spillage of product.

#### 6.2. Environmental precautions

Do not allow to enter drains or waterways.

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

Take up with absorbent material (eg sand, kieselguhr, universal binder). Rinse away rest with plenty of water.

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## 7. Handling and storage \*\*\*

## 7.1. Precautions for safe handling

#### Advice on safe handling

Observe the usual precautions for handling chemicals. Handle and open container with care.

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

#### Recommended storage temperature

5 - 45

Storage stability \*\*\*

Value

Storage period: 12 month

#### Requirements for storage rooms and vessels

Keep only in the original container.

#### VCI storage category

VCI storage category 12 Non-combustible liquids

#### Further information on storage conditions

Protect from frost.

## 8. Exposure controls/personal protection

## 8.2. Exposure controls

## General protective and hygiene measures

Take off immediately all contaminated clothing. Wash hands before breaks and after work. Do not eat, drink or smoke during work time.

## **Respiratory protection**

Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, Filter B

## Hand protection

Gloves (alkali-resistant) Appropriate Material Natural Latex KCL Lapren 706 / 0.6mm / 480 min.

## Eye protection

Safety glasses with side protection shield

## vanBaerle

Trade name: INOBOND 665

Substance number: PP-00034

Version: 3 / WORLD Replaces Version: 2 / WORLD

Date revised: 17.06.13 Print date: 27.09.13

### **Body protection**

Clothing as usual in the chemical industry.

## 9. Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

	Form Colour Odour	liquid, colourl odourle	clear ess ess			
	pH	00000				
	Value		12	to	13	
	Melting point					
	Remarks	Not ap	plicable			
	Boiling point	•	•			
	Value	appr.	100			C
	Flash point					
	Remarks	Non fla	ammable.			
	Flammability					
	Not ignitable					
	Explosion limits					
	Remarks	Not ap	plicable			
	Vapour pressure					
	Remarks	not det	termined			
	Density					
	Value	appr.	1.44			kg/l
	Temperature		20	C		
	Solubility in water					
	Remarks	Compl	etely miscil	ble		
	Octanol/water partition coeffic	cient (lo	og Pow)			
	Remarks	Not ap	plicable			
	Ignition temperature					
	Remarks	Non fla	ammable.			
	Viscosity					
	Value	appr.	200	~		mPa.s
			20	U		
	Oxidising properties					
	Remarks	Not ap	plicable			
9.2.	Other information					
	Solids content					
	Value	appr.	43			%

## 10. Stability and reactivity

#### **10.4. Conditions to avoid** Protect from frost.

10.5. Incompatible materials



Trade name: INOBOND 665

Substance number: PP-00034

Version: 3 / WORLD Replaces Version: 2 / WORLD

Date revised: 17.06.13 Print date: 27.09.13

Acids

## **10.6. Hazardous decomposition products**

No hazardous decomposition products known.

## **11. Toxicological information**

## 11.1. Information on toxicological effects

#### Acute oral toxicity

Remarks	The t simila	The toxicological data shown are those obtained from tests on products of similar composition.			
Reference substance	Slilici	Slilicic acid, sodium salt (Molar ratio Na2O : SiO2 = 1 : 3.2-3.4: 35-40%)			
Species	rat	,			
LD50	>	2000	mg/kg		
Source	IUCL	ID			
Reference substance	Silicio	acid, potassiu	um salt (Molar ratio K2O : SiO2 = 1 : 3.9-4.0; 28-30%)		
Species	rat				
LD50	>	2000	mg/kg		
Source	IUCL	ID			
Reference substance	Slilici	c acid, sodium	salt (Molar ratio Na2O : SiO2 = 1 : 2.0; 40-50%)		
Species	rat				
LD50	>	2000	mg/kg		
Source	IUCL	ID			
Remarks	The p subst practi	oisonous effec ance-specific s ical significanc	ct of the product is caused by its alkalinity and not by systemic characteristics. The LD50 value is of no e due to the caustic effect of the product.		
Skin corrosion/irritation					
evaluation	irritar	it			
Serious eye damage/irrit	ation				
evaluation	irritar	it			
Sensitization					
evaluation	non-s	ensitizing			
Experience in practice					
Contact of the product wit	h skin or o	eyes may caus	se irritation.		

#### Other information

When handled appropiately, even after long years of experience with this product, no adverse health effects are known.

## **12. Ecological information**

## 12.1. Toxicity

Fish toxicity				
Remarks	Ecot	oxicologica	al data are	taken from a similar product of the same type.
Reference substance	Slilic	ic acid, so	dium salt (N	/lolar ratio Na2O : SiO2 = 1 : 3.36; 35%)
Species	Brac	hidanio rer	io	
LC50	>	2000		mg/l
Duration of exposure		96	h	-
Source	IUCL	.ID		
Reference substance	Silici	c acid, pot	assium salt	: (Molar ratio K2O : SiO2 = 1 : 3.9-4.0; 29%)
Species	Leuc	iscus idus		
LCO	>	500		mg/l
Duration of exposure		48	h	-
Source	IUCL	.ID		



Substance number: PP-00034		Versior	n: 3 / WORI	D	Date revised: 17.06.13
		Replac	es Version:	2 / WORLD	Print date: 27.09.1
Remarks	The e	cotoxic eff	ect of the pr	oduct is mainly due	to its alkalinity.
Daphnia toxicity					
Remarks Reference substance Species EC0 Duration of exposure Source Reference substance Species EC0 Duration of exposure Source Remarks	Ecoto: Slilicic Daphr > IUCLII Silicic Daphr > IUCLII The ec	kicological acid, sod ia magna 2000 48 D acid, pota ia magna 500 24 D cotoxic eff	l data are ta ium salt (Mo h issium salt ( h ect of the pr	ken from a similar pr blar ratio Na2O : SiO mg/l Molar ratio K2O : SiQ mg/l	oduct of the same type. 2 = 1 : 3.2; 35%) D2 = 1 : 3.9-4.0; 29%) to its alkalinity
Bacteria toxicity					
Remarks Reference substance Species EC0 Duration of exposure Source	Ecoto: Slilicic Pseud > IUCLII	kicological acid, sod lomonas p 1000 48	l data are ta ium salt (Mo butida h	ken from a similar pr lar ratio Na2O : SiO mg/l	oduct of the same type. 2 = 1 : 3.36; 35%)
Remarks	The e	_ cotoxic eff	ect of the pr	oduct is mainly due	to its alkalinity.

#### **Biodegradability**

Remarks

Inorganic product, cannot be eliminated from the water by biological purification processes.

## 12.3. Bioaccumulative potential

### Octanol/water partition coefficient (log Pow)

Remarks

Not applicable

## 12.6. Other adverse effects

#### Behaviour in sewers [waste treatment plants]

The product is an alkaline solution. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants. When low concentrations are discharged correctly into adapted biological sewage treatment plants, disturbance of the degradation activity of activated sludge is not likely.

## **General information / ecology**

Do not allow to enter soil, waterways or waste water canal.

## 13. Disposal considerations

## 13.1. Waste treatment methods

#### Disposal recommendations for the product

EWC waste code 06 02 05\* other bases Dilution and neutralization with acid. After solidification (e.g. as CaSiO3 precipitate), landfill in accordance with local authorities. Re-use without reprocessing as long as not solidified.

## Disposal recommendations for packaging

Completely emptied packagings can be given for recycling. Cleaned and empty drums can be returned to the supplier.

## 14. Transport information

## vanBaerle

	Replaces Version: 2 / WORLD	Print date: 27.09.13
Substance number: PP-00034	Version: 3 / WORLD	Date revised: 17.06.13

## Land transport ADR/RID

Remarks

Trade name: INOBOND 665

Not classified as dangerous according to transport regulations.

#### Marine transport IMDG/GGVSee Remarks

Not classified as dangerous according to transport regulations.

#### Air transport ICAO/IATA Remarks

Not classified as dangerous according to transport regulations.

## 15. Regulatory information

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

### Water Hazard Class (Germany)

Water Hazard Class WGK 1 (Germany)

## 16. Other information

Restricted to professional users

## **R-phrases listed in Chapter 3**

35	Causes severe burns.
36/38	Irritating to eyes and skin.
Hazard statements list	ed in Chapter 3
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
CLP categories listed i	n Chapter 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Irrit. 2	Eye irritation, Category 2

Skin corrosion, Category 1B

Skin irritation, Category 2

## **Supplemental information**

Skin Corr. 1B

Skin Irrit. 2

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\* This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

## **E-SDS Chapters**

	Exposure Scenario Title
Title	Workplace exposure to sodium silicate (EC 215-687-4), potassium silicate (EC 215-199-1) and disodium metasilicate (EC 229-912-9) powder
Use Descriptor	Sector of Use: SU 3 and SU 22
	Process Categories (PROC): 1, 2, 3, 4, 5, 6, 7, 8a, 8b, 9, 10, 11, 13, 14, 22, 23, 24
	Environmental Release Categories: not required
Processes, tasks, activities covered	Manufacture of the substance as well as industrial and professional uses.

## vanBaerle

Trade name: INOBOND 665

Substance number: PP-00034

Version: 3 / WORLD Replaces Version: 2 / WORLD Date revised: 17.06.13

Print date: 27.09.13

Section 2	Operational conditions and risk management measures	
	Whenever handling sodium/potassium silicate/disodium metasilicate as a substance on its own (Lumps. powder/granules or liquid) or in a preparation outside closed systems, depending on the use and concentration suitable personal protective equipment (gloves, goggles, dust masks or respiratiors) are the preferred and only measure of control.	
Section 2.1	Control of worker exposure	
Product characteristics		
Physical form of product	solid, powder, vapour pressure 0.0103 kPa (1175 ℃) [OC3]	
Concentration of substance in product	Covers percentage substance in the product up to 100 % [G13], unless otherwise stated.	
Amounts used	No limit	
Frequency and duration of use	Covers frequency up to: daily use, weekly, monthly, yearly [G6], unless otherwise stated.	
Human factors not influenced by risk management	Not applicable	
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented [G1] The work occurs inside as well outside [OC8, OC9]	
Contributing Scenarios	Risk Management Measures.	
PROC 1, 2, 3	Handle substance within a closed system [E47]. No other specific measures identified [EI20].	
PROC 4, 5, 6, 8a, 8b, 9, 10, 13, 14, 22, 23, 24	Wear suitable gloves (tested to EN374) and eye protection [PPE19].	
PROC 7, 11	Provide enhanced general ventilation by mechanical means [E48]. Wear suitable gloves (tested to EN374) and eye protection [PPE19]. or Wear a respirator conforming to EN140 with Type A/P2 filter or better [PPE 29]. Wear suitable gloves (tested to EN374) and eye protection [PPE19].	
Section 2.2	Control of environmental exposure	
	Not required, as soluble silicates, including sodium/potassium silicate/disodium metasilicate, do not meet the criteria for classification as dangerous to the environment according to 67/548/EEC (See Article 14.4 of REACH Regulation). Furthermore, as high production volume substances, soluble silicates have been reviewed to a great extent for their exposure potential to the environment and the possible risks arising from their release (Van Dokkum et al. 2002, OECD SIDS 2004, HERA 2005, and CEES 2008). It was concluded that soluble silicates are currently of low priority for further work because of their low hazard profile.	
Section 3	Exposure Estimation	
3.1.	Health	
The ECETOC TRA tool with modifications as outlined in the CAS has been used to estimate worker exposures.		
Section 4	Guidance to check compliance with the Exposure Scenario	
4.1.	Health	

4.1. Health
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions
outlined in Section 2 are implemented. [G22].

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. [G23].

Section 1	Exposure Scenario Title
Title	Workplace exposure to sodium silicate (EC 215-687-4), potassium silicate (EC 215-199-1) and disodium metasilicate (EC 229-912-9) solutions
Use Descriptor	Sector of Use: SU 3 and SU 22
	Process Categories (PROC): 1, 2, 3, 4, 5, 6, 7, 8a, 8b, 9, 10, 11, 13, 14, 22, 23, 24, 25
	Environmental Release Categories: not required

## vanBaerle

Trade name: INOBOND 665

Substance number: PP-00034

Version: 3 / WORLD

Replaces Version: 2 / WORLD

Date revised: 17.06.13

Print date: 27.09.13

Processes, tasks, activities covered	Manufacture of the substance as well as industrial and professional uses.	
Section 2	Operational conditions and risk management measures	
	Whenever handling sodium/potassium silicate/disodium metasilicate as a substance on its own (Powder/granules or liquid) or in a preparation outside closed systems, depending on the use and concentration suitable personal protective equipment (gloves, goggles, dust masks or respiratiors) are the preferred and only measure of control.	
Section 2.1	Control of worker exposure	
Product characteristics		
Physical form of product	liquid, solution, vapour pressure 0.0103 kPa (1175 ℃) [OC3].	
Concentration of substance in product	Covers percentage substance in the product up to 100 % [G13], unless otherwise stated.	
Amounts used	No limit	
Frequency and duration of use	Covers frequency up to: daily use, weekly, monthly, yearly [G6] Except for PROCs 7 and 11: Avoid carrying out operation for more than 1 hour [OC11]	
Human factors not influenced by risk management	Not applicable	
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented [G1]. The work occurs inside as well outside [OC8, OC9]	
Contributing Scenarios	Risk Management Measures.	
PROC 1, 2, 3	Handle substance within a closed system [E47]. No other specific measures identified [EI20].	
PROC 4, 5, 6, 8a, 8b, 9, 10, 13, 14, 22, 23, 24	Wear suitable gloves (tested to EN374) and eye protection [PPE19].	
PROC 7, 11	Covers percentage substance in the product up to 25% [G12]. Provide enhanced general ventilation by mechanical means [E48]. Wear suitable gloves (tested to EN374) and eye protection [PPE19]. or Wear a respirator conforming to EN140 with Type A/P2 filter or better [PPE 29]. Avoid carrying out operation for more than 1 hour [OC11]. Wear suitable gloves (tested to EN374) and eye protection [PPE19].	
Section 2.2	Control of environmental exposure	
	Not required, as soluble silicates, including sodium/potassium silicate/disodium metasilicate, do not meet the criteria for classification as dangerous to the environment according to 67/548/EEC (See Article 14.4 of REACH Regulation). Furthermore, as high production volume substances, soluble silicates have been reviewed to a great extent for their exposure potential to the environment and the possible risks arising from their release (Van Dokkum et al. 2002, OECD SIDS 2004, HERA 2005, and CEES 2008). It was concluded that soluble silicates are currently of low priority for further work because of their low hazard profile.	
Section 3	Exposure Estimation	
3.1.	Health	
The ECETOC TRA tool with modifications as outlined in the CAS has been used to estimate worker exposures.		
Section 4	Guidance to check compliance with the Exposure Scenario	
4.1.	Health	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions		

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Condition outlined in Section 2 are implemented. [G22].

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. [G23].

## Section 1 Exposure Scenario Title Title

Use in Consumer products

Use Descriptor

## vanBaerle

Trade name: INOBOND 665

Substance number: PP-00034

Version: 3 / WORLD

Replaces Version: 2 / WORLD

Date revised: 17.06.13 Print date: 27.09.13

Sector(s) of Use		21		
Breduct Cotogorian		1 00 0b 14 15 17 02 04 06 20 22 24 25 20		
Product Gategories		1, 98, 90, 14, 15, 17, 25, 24, 20, 30, 55, 54, 55, 59		
Environmental Release Categories Inot required				
Processes, tasks, activities covered				
Covers general exposures to consumers arising from the use of household products sold				
Assessment Method				
See Section 3.				
Section 2 Operational condit	ions and risk	management measures		
Section 2.1 Control of consu	mer exposure			
Product characteristics				
Physical form of product	Powder or liquid			
Vapour pressure (kPa)	< 0.5 kPa			
Concentration of substance in product	Unless otherwise stated, cover concentrations up to 100% [ConsOC1].			
Amounts used	Unless otherwise stated, covers use amounts up to 37500 g [ConsOC2]; covers skin contact area up to 6660 cm2 [ConsOC5].			
Frequency and duration of use/exposure	Unless otherwise stated, covers use frequency up to 4 times per day [ConsOC4]; covers exposure up to 8 hours per event [ConsOC14].			
Other Operational Conditions	Unless otherwise stated assumes use at ambient temperatures [ConsOC15]; assumes use in a 20			
affecting exposure	m <sup>3</sup> room [Con:	sOC11]; assumes use with typical ventilation [ConsOC8].		
Product Category	Specific Risk Management Measures and Operating Conditions (only required controls to			
	demonstrate	safe use listed)		
PCs - general case	OC I r c r t	n cosumer products the irritation hazard of soluble silicates is addressed, if necessary, by appropriate labelling and the advice to use (household) gloves on the consumer product. In general, dermal, inhalation and oral consumer exposure are ninimised due to formulation (limited concentration of soluble silicates, particle size distribution, agglomeration and dust potential, tablets and gels), packaging and bad aste of commercially available products.		
	RMM N	No specific RMMs identified beyond those OCs stated.		
PC 1, 9a, 9b, 14, 15, 17, 23, 24, 26, 30, 33, 34, 39	OC (	Covers use up to 365 days/year [ConsOC3]; covers use under typical household ventilation [ConsOC8]; covers default OCs of ECETOC TRA tool.		
	RMM N	No specific RMMs identified beyond those OCs stated.		
PC 35 - laundry handwashing (example)		Unless otherwise stated, covers concentrations up to 25% [ConsOC1]; covers use up o 4 days/week [ConsOC3]; covers use up to 1 time/on day of use [ConsOC4]; covers skin contact area up to 1980 cm2 [ConsOC5]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3 [ConsOC11]; for each use event, covers exposure up to 0.17 hr/event[ConsOC14].		
	RMM r	No specific RMMs identified beyond those OCs stated.		
PC 35 - pre-treatment of clothes (example)	OC l t	Unless otherwise stated, covers concentrations up to 60% [ConsOC1]; covers use up o 21 tasks/week [ConsOC3]; covers skin contact area up to 840 cm2 [ConsOC5]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20 m3 [ConsOC11]; for each use event, covers exposure up to 0.17 nr/event[ConsOC14].		
	RMM [	No specific RMMs identified beyond those OCs stated.		
Section 3 Exposure Estimation				
3.1. Health				
The ECETOC TRA tool has been used to estimate consumer exposures, consistent with the content of ECETOC Report no. 107 and the Chapter R15 of the IR&CSA TGD. Where exposure determinants differ to these sources, then they are indicated.				

Section 4 Guidance to check compliance with the Exposure Scenario

4.1. Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. [G22].

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. [G23].