

Trade name: INOBOND 605

Substance number: PP-00120

Version: 3 / WORLD

Date revised: 19.06.13

Replaces Version: 2 / WORLD

Print date: 08.10.13

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

\*\*\*

**1.1. Product identifier**

Trade name

**INOBOND 605**

**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 \*\*\***

N O N E

**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 Department product safety  
 E-mail address of person responsible for this SDS silikat@vanbaerle.ch

**1.4. Emergency telephone number**

Swiss Toxicological Information Centre 145  
 51)

(international 0041 44 251 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

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**Classification in accordance with EC directives**

Classification Xi, R36/38

**2.2. Label elements****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**

irritant

**R phrases**

36/38 Irritating to eyes and skin.

**S phrases**

26 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 Me<sub>2</sub>O : SiO<sub>2</sub> = 1 : > 2.60 - < 3.20**Hazardous ingredients \*\*\*****Silicic acid, potassium salt (Molar ratio K<sub>2</sub>O : SiO<sub>2</sub> = 1 : > 2.6 - < 3.2)**

CAS No.	1312-76-1				
EINECS no.	215-199-1				
Registration no.	01-2119456888-17-0003				
Concentration	25	-	50	%	
Classification	Xi, R36/38				

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

Skin Irrit. 2	H315
Eye Irrit. 2	H319

**Lithium hydroxide**

CAS No.	1310-65-2				
EINECS no.	215-183-4				
Concentration		1	-	5	%
Classification	C, R35				

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

Acute Tox. 4	H302
Skin Corr. 1B	H314
Aquatic Chronic 3	H412

**Further ingredients \*\*\*****Water**

CAS No.	7732-18-5				
EINECS no.	231-191-2				
Concentration		50	-	75	%

**Other information**

Educts are listed in EINECS

**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**

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Compatible with all usual extinguishing media.

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

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.

## 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

Value 5 - 45 °C

#### Storage stability \*\*\*

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.

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**Eye protection**

Safety glasses with side protection shield

**Body protection**

Clothing as usual in the chemical industry.

**9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Form</b>	liquid, clear
<b>Colour</b>	colourless
<b>Odour</b>	odourless
<b>pH</b>	
Value	12 to 13
<b>Melting point</b>	
Remarks	Not applicable
<b>Boiling point</b>	
Value	appr. 100 °C
<b>Flash point</b>	
Remarks	Non flammable.
<b>Flammability</b>	
Not ignitable	
<b>Explosion limits</b>	
Remarks	Not applicable
<b>Vapour pressure</b>	
Remarks	not determined
<b>Density</b>	
Value	appr. 1.37 kg/l
Temperature	20 °C
<b>Solubility in water</b>	
Remarks	Completely miscible
<b>Octanol/water partition coefficient (log Pow)</b>	
Remarks	Not applicable
<b>Ignition temperature</b>	
Remarks	Non flammable.
<b>Viscosity</b>	
Value	appr. 300 mPa.s
Temperature	20 °C
<b>Oxidising properties</b>	
Remarks	Not applicable

**9.2. Other information****Solids content**

Value appr. 38 %

**10. Stability and reactivity****10.4. Conditions to avoid**

Protect from frost.

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## 10.5. Incompatible materials

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 toxicological data shown are those obtained from tests on products of similar composition.	
Reference substance	Silicic acid, sodium salt (Molar ratio Na <sub>2</sub> O : SiO <sub>2</sub> = 1 : 3.2-3.4; 35-40%)	
Species	rat	
LD50	> 2000	mg/kg
Source	IUCLID	
Reference substance	Silicic acid, potassium salt (Molar ratio K <sub>2</sub> O : SiO <sub>2</sub> = 1 : 3.9-4.0; 28-30%)	
Species	rat	
LD50	> 2000	mg/kg
Source	IUCLID	
Reference substance	Silicic acid, sodium salt (Molar ratio Na <sub>2</sub> O : SiO <sub>2</sub> = 1 : 2.0; 40-50%)	
Species	rat	
LD50	> 2000	mg/kg
Source	IUCLID	
Remarks	The poisonous effect of the product is caused by its alkalinity and not by substance-specific systemic characteristics. The LD50 value is of no practical significance due to the caustic effect of the product.	

#### Skin corrosion/irritation

evaluation irritant

#### Serious eye damage/irritation

evaluation irritant

#### Sensitization

evaluation non-sensitizing

#### Experience in practice

Contact of the product with skin or eyes may cause irritation.

#### Other information

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

## 12. Ecological information

### 12.1. Toxicity

#### Fish toxicity

Remarks	Ecotoxicological data are taken from a similar product of the same type.	
Reference substance	Silicic acid, sodium salt (Molar ratio Na <sub>2</sub> O : SiO <sub>2</sub> = 1 : 3.36; 35%)	
Species	Brachidanio rerio	
LC50	> 2000	mg/l
Duration of exposure	96	h
Source	IUCLID	
Reference substance	Silicic acid, potassium salt (Molar ratio K <sub>2</sub> O : SiO <sub>2</sub> = 1 : 3.9-4.0; 29%)	
Species	Leuciscus idus	
LC0	> 500	mg/l

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Duration of exposure 48 h  
 Source IUCLID  
 Remarks The ecotoxic effect of the product is mainly due to its alkalinity.

**Daphnia toxicity**

Remarks Ecotoxicological data are taken from a similar product of the same type.  
 Reference substance Silicic acid, sodium salt (Molar ratio Na<sub>2</sub>O : SiO<sub>2</sub> = 1 : 3.2; 35%)  
 Species Daphnia magna  
 EC<sub>0</sub> > 2000 mg/l  
 Duration of exposure 48 h  
 Source IUCLID  
 Reference substance Silicic acid, potassium salt (Molar ratio K<sub>2</sub>O : SiO<sub>2</sub> = 1 : 3.9-4.0; 29%)  
 Species Daphnia magna  
 EC<sub>0</sub> > 500 mg/l  
 Duration of exposure 24 h  
 Source IUCLID  
 Remarks The ecotoxic effect of the product is mainly due to its alkalinity.

**Bacteria toxicity**

Remarks Ecotoxicological data are taken from a similar product of the same type.  
 Reference substance Silicic acid, sodium salt (Molar ratio Na<sub>2</sub>O : SiO<sub>2</sub> = 1 : 3.36; 35%)  
 Species Pseudomonas putida  
 EC<sub>0</sub> > 1000 mg/l  
 Duration of exposure 48 h  
 Source IUCLID  
 Remarks The ecotoxic effect of the product is mainly due to its alkalinity.

**12.2. Persistence and degradability****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 CaSiO<sub>3</sub> 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.

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## 14. Transport information

### Land transport ADR/RID

Remarks 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 listed 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 in 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 Corr. 1B Skin corrosion, Category 1B  
Skin Irrit. 2 Skin irritation, Category 2

### Supplemental information

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



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	Environmental Release Categories: not required
Processes, tasks, activities covered	Manufacture of the substance as well as industrial and professional uses.
<b>Section 2</b>	<b>Operational conditions and risk management measures</b>
	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 respirators) are the preferred and only measure of control.
<b>Section 2.1</b>	<b>Control of worker exposure</b>
Product characteristics	
Physical form of product	solid, powder, vapour pressure 0.0103 kPa (1175 °C) [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]
<b>Contributing Scenarios</b>	<b>Risk Management Measures.</b>
PROC 1, 2, 3	Handle substance within a closed system [E47]. No other specific measures identified [E120].
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].
<b>Section 2.2</b>	<b>Control of environmental exposure</b>
	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.
<b>Section 3</b>	<b>Exposure Estimation</b>
<b>3.1.</b>	<b>Health</b>
	The ECETOC TRA tool with modifications as outlined in the CAS has been used to estimate worker exposures.
<b>Section 4</b>	<b>Guidance to check compliance with the Exposure Scenario</b>
<b>4.1.</b>	<b>Health</b>
	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].
<b>Section 1</b>	<b>Exposure Scenario Title</b>
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

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	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
Processes, tasks, activities covered	Manufacture of the substance as well as industrial and professional uses.
<b>Section 2</b>	<b>Operational conditions and risk management measures</b>
	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 respirators) are the preferred and only measure of control.
<b>Section 2.1</b>	<b>Control of worker exposure</b>
Product characteristics	
Physical form of product	liquid, solution, vapour pressure 0.0103 kPa (1175 °C) [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]
<b>Contributing Scenarios</b>	<b>Risk Management Measures.</b>
PROC 1, 2, 3	Handle substance within a closed system [E47]. No other specific measures identified [E120].
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].
<b>Section 2.2</b>	<b>Control of environmental exposure</b>
	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.
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<b>3.1.</b>	<b>Health</b>
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<b>Section 4</b>	<b>Guidance to check compliance with the Exposure Scenario</b>
<b>4.1.</b>	<b>Health</b>
	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**

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<b>Title</b>		
Use in Consumer products		
<b>Use Descriptor</b>		
Sector(s) of Use	21	
Product Categories	1, 9a, 9b, 14, 15, 17, 23, 24, 26, 30, 33, 34, 35, 39	
Environmental Release Categories	not required	
<b>Processes, tasks, activities covered</b>		
Covers general exposures to consumers arising from the use of household products sold		
<b>Assessment Method</b>		
See Section 3.		
<b>Section 2 Operational conditions and risk management measures</b>		
<b>Section 2.1 Control of consumer exposure</b>		
<b>Product characteristics</b>		
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 cm <sup>2</sup> [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 affecting exposure	Unless otherwise stated assumes use at ambient temperatures [ConsOC15]; assumes use in a 20 m <sup>3</sup> room [ConsOC11]; assumes use with typical ventilation [ConsOC8].	
<b>Product Category</b>	<b>Specific Risk Management Measures and Operating Conditions (only required controls to demonstrate safe use listed)</b>	
PCs - general case	OC	In consumer 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 minimised due to formulation (limited concentration of soluble silicates, particle size distribution, agglomeration and dust potential, tablets and gels), packaging and bad taste of commercially available products.
	RMM	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	No specific RMMs identified beyond those OCs stated.
PC 35 - laundry handwashing (example)	OC	Unless otherwise stated, covers concentrations up to 25% [ConsOC1]; covers use up to 4 days/week [ConsOC3]; covers use up to 1 time/on day of use [ConsOC4]; covers skin contact area up to 1980 cm <sup>2</sup> [ConsOC5]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m <sup>3</sup> [ConsOC11]; for each use event, covers exposure up to 0.17 hr/event[ConsOC14].
	RMM	No specific RMMs identified beyond those OCs stated.
PC 35 - pre-treatment of clothes (example)	OC	Unless otherwise stated, covers concentrations up to 60% [ConsOC1]; covers use up to 21 tasks/week [ConsOC3]; covers skin contact area up to 840 cm <sup>2</sup> [ConsOC5]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20 m <sup>3</sup> [ConsOC11]; for each use event, covers exposure up to 0.17 hr/event[ConsOC14].
	RMM	No specific RMMs identified beyond those OCs stated.
<b>Section 3 Exposure Estimation</b>		
<b>3.1. Health</b>		
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.		
<b>Section 4 Guidance to check compliance with the Exposure Scenario</b>		
<b>4.1. Health</b>		
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].		

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