

Version number 16

Revision: 11.10.2017

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### · 1.1 Product identifier

• Trade name: SabaPVC S3

• 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

• Application of the substance / the mixture Adhesive

· 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier: SABA Dinxperlo BV Industriestraat 3 NL-7091 DC Dinxperlo The Netherlands

P.O Box 3 NL - 7090 AA Dinxperlo The Netherlands

*Tel.: +31 315 65 89 99 Fax: +31 315 65 32 07 E-mail: info@saba-adhesives.com Internet: www.saba-adhesives.com* 

• Further information obtainable from: Drs. J.W. Diesveld (e-mail: johan.diesveld@saba-adhesives.com) • 1.4 Emergency telephone number: SABA Dinxperlo BV: Tel.: +31 315 65 89 99

### SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

Carc. 2 H351 Suspected of causing cancer.

STOT SE 3 H336 May cause drowsiness or dizziness.

### · 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



· Signal word Danger

Hazard-determining components of labelling: cyclohexanone tetrahydrofuran butanone
Hazard statements H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H318 Causes serious eye damage. H351 Suspected of causing cancer. H336 May cause drowsiness or dizziness.

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# Safety data sheet according to 1907/2006/EC, Article 31

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· Precautionary sta	atements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing vapours.
P280	Wear protective gloves / eye protection.
P305+P351+P33	<i>Remove contact lenses, if present and easy to do. Continue rinsing.</i>
P310	Immediately call a doctor.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Additional inform	nation:
EUH019 May for	m explosive peroxides.
· 2.3 Other hazard	ls in the second s
· Results of PBT a	nd vPvB assessment
• <b>PBT:</b> Not applica	ıble.

· vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

### · 3.2 Chemical characterisation: Mixtures

• Description: Mixture of components listed below with non-hazardous additions.

· Dangerous components:		
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43-xxxx	butanone 🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319; STOT SE 3, H336	43.48%
CAS: 108-94-1 EINECS: 203-631-1 Reg.nr.: 01-2119453616-35-xxxx	cyclohexanone Flam. Liq. 3, H226; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	18.58%
CAS: 109-99-9 EINECS: 203-726-8 Reg.nr.: 01 -2119444314-46-xxxx	tetrahydrofuran � Flam. Liq. 2, H225; � Carc. 2, H351; � Eye Irrit. 2, H319; STOT SE 3, H335	13.94%

· SVHC Not applicable.

· Additional information: For the wording of the listed hazard phrases refer to section 16.

### **SECTION 4: First aid measures**

### · 4.1 Description of first aid measures

• General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Take affected persons out of danger area and lay down.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:
- Rinse out mouth and then drink plenty of water.
- Do not induce vomiting.
- If symptoms persist consult doctor.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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• **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

**SECTION 5: Firefighting measures** 

### · 5.1 Extinguishing media

• Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- $\cdot$  5.2 Special hazards arising from the substance or mixture
- In case of fire, the following can be released: Hydrogen chloride (HCl) Carbon monoxide and carbon dioxide Metal oxides.
- 5.3 Advice for firefighters
- Protective equipment:

Wear fully protective suit. Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases.

### **SECTION 6:** Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
 Keep people at a distance and stay on the windward side.
 Wear protective equipment. Keep unprotected persons away.
 Ensure adequate ventilation
 6.2 Environmental precautions: Prevent seepage into sewage system, workpits and cellars.

• 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

### · 7.1 Precautions for safe handling

The usual precautionary measures are to be adhered to when handling chemicals. Open and handle receptacle with care.

- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

• *Requirements to be met by storerooms and receptacles:* Store only in the original receptacle. Protect from frost.

Protect from heat and direct sunlight.

· Information about storage in one common storage facility: Store away from foodstuffs.

· Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

· 7.3 Specific end use(s) No further relevant information available.

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A d d 4	information 1	t design of technical for ilition No function data and in 7	
	-	<i>t design of technical facilities:</i> No further data; see item 7.	
	l parameters	, , , , , , , , , , , , , , , , , , ,	
ingreatent 78-93-3 bi		that require monitoring at the workplace:	
	tt-term value: 899	ma/m <sup>3</sup> 300 ppm	
	g-term value: 600 i		
	BMGV		
	yclohexanone		
	t-term value: 82 m		
	g-term value: 41 m BMGV	g/m², 10 ppm	
	etrahydrofuran		
	rt-term value: 300	ng/m³, 100 ppm	
	g-term value: 150 i	ng/m <sup>3</sup> , 50 ppm	
Sk			
DNELs			
78-93-3 bı			
Dermal		412 mg/kg BW (Chronic effects; Systemic)	
111	DNEL Worker	1,161 mg/kg BW (Chronic effects; Systemic)	
ιππαιαπνε	DNEL Consumer DNEL Worker	106 mg/m3 (Chronic effects; Systemic) 600 mg/m3 (Chronic effects; Systemic)	
108-04-1 6	yclohexanone	ooo mg/m5 (Chronic effects, Systemic)	
Oral	-	1.5 mg/kg BW (Acute effects; Systemic)	
e i ui		1.5 mg/kg BW (Chronic effects; Systemic)	
Dermal	DNEL Consumer	1 mg/kg BW (Acute effects; Systemic)	
		1 mg/kg BW (Chronic effects; Systemic)	
	DNEL Worker	4 mg/kg BW (Acute effects; Systemic)	
		4 mg/kg BW (Chronic effects; Systemic)	
Inhalative	DNEL Consumer	40 mg/m3 (Acute effects; Local)	
		20 mg/m3 (Acute effects; Systemic)	
		20 mg/m3 (Chronic effects; Local)	
		10 mg/m3 (Chronic effects; Systemic)	
	DNEL Worker	80 mg/m3 (Acute effects; Local)	
		80 mg/m3 (Acute effects; Systemic)	
		40 mg/m3 (Chronic effects; Local) 40 mg/m3 (Chronic effects; Systemic)	
109_99_9 +	etrahydrofuran	to mg/ms (Chronic ejjecis, systemic)	
Oral	• •	15 mg/kg BW (Chronic effects; Systemic)	
Dermal		15 mg/kg BW (Chronic effects; Systemic)	
	DNEL Worker	25 mg/kg BW (Chronic effects; Systemic)	
Inhalative	DNEL Consumer	150 mg/m3 (Acute effects; Local)	
		150 mg/m3 (Acute effects; Systemic)	
		75 mg/m3 (Chronic effects; Local)	
		62 mg/m3 (Chronic effects; Systemic)	
	DNEL Worker	300 mg/m3 (Acute effects; Local)	

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		150 mg/m3 (Chronic effects; Local)	
		150 mg/m3 (Chronic effects; Systemic)	
· PNECs			
78-93-3 butano	one		
PNEC Aquatic ecosystem		55.8 mg/l (Fresh water)	
		55.8 mg/l (Intermittent release)	
		55.8 mg/l (Marine water)	
		709 mg/l (Sewage treatment)	
PNEC Aquatic	ecosystem	284.7 mg/kg (Fresh water sediment)	
		284.7 mg/kg (Marine water sediment)	
	-	22.5 mg/kg (Soil)	
108-94-1 cyclo			
PNEC Aquatic	ecosystem	0.033 mg/l (Fresh water)	
		0.0033 mg/l (Marine water)	
		10 mg/l (Sewage treatment)	
PNEC Aquatic	ecosystem	0.168 mg/kg (Fresh water sediment)	
		0.017 mg/kg (Marine water sediment)	
		0.014 mg/kg (Soil)	
109-99-9 tetral			
PNEC Aquatic	ecosystem	4.32 mg/l (Fresh water)	
		21.6 mg/l (Intermittent release)	
		0.432 mg/l (Marine water)	
		4.6 mg/l (Sewage treatment)	
PNEC Aquatic	ecosystem	23.3 mg/kg (Fresh water sediment)	
		2.33 mg/kg (Marine water sediment)	
		2.1 mg/kg (Soil)	
Ingredients wit	-	limit values:	
78-93-3 butanc			
BMGV 70 µma	ol/L m: urine		
	ing time: post	shift	
	eter: butan-2-		
108-94-1 cyclo	hexanone		
BMGV 2 mmo	l/mol creatini	ne	
	m: urine	1.4	
	ing time: post eter: cyclohex		
	•	e lists valid during the making were used as basis.	
		i lisis valia auting the making were used as basis.	
· 8.2 Exposure c · Personal prote		ont.	
General protec			
		asures are to be adhered to when handling chemicals.	
		peverages and feed.	
Do not inhale g Avoid contact v			
Remove any clo			
Respiratory pro	otection:		
		tective device in case of insufficient ventilation.	
Recommended Filter A	filter:		
r iller A			(Contd. on page
			, r.o-

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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- · Penetration time of glove material
- The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- $\cdot$  For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Neoprene gloves

• Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing.

9.1 Information on basic physical a General Information	nd chemical properties	
Appearance:		
Form:	Fluid	
Colour:	Colourless	
Odour:	Characteristic	
Odour threshold:	No data available.	
pH-value:	Not applicable.	
Change in condition Melting point/freezing point: Initial boiling point and boiling re	No data available. ange: 65 °C	
Flash point:	4 °C	
Flammability (solid, gas):	Not applicable.	
Ignition temperature:	230 °C	
Decomposition temperature:	No data available.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	May form explosive peroxides.	
Explosion limits:		
Lower:	1.1 Vol %	
Upper:	12 Vol %	
Oxidising properties	No data available.	
Vapour pressure at 20 °C:	173 hPa	

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· Density at 20 °C:	$0.95 \ g/cm^3$	
· Vapour density	No data available.	
· Evaporation rate	No data available.	
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Partition coefficient: n-octanol/water:	No data available.	
· Viscosity:		
Dynamic at 20 °C:	1,150 mPas	
· Solvent separation test:	No data available.	
· Solvent content:		
Organic solvents:	76.0 %	
VOC(EC)	76.00 %	
Solids content:	24.0 %	
• 9.2 Other information	No further relevant information available.	

# SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions Violent reactions with strong alkalis and oxidising agents.
- 10.4 Conditions to avoid No further relevant information available.
- $\cdot$  10.5 Incompatible materials: No further relevant information available.
- $\cdot$  10.6 Hazardous decomposition products:

Hydrogen chloride (HCl)

Carbon monoxide and carbon dioxide

### SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

78-93-3 bi	ıtanone	
Oral	LD50	>2,193 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
108-94-1 с	yclohexan	one
Oral	LD50	2,070-2,110 mg/kg (mouse)
		1,890 mg/kg (rat)
Dermal	LD50	1,100 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (rat)
109-99-9 t	etrahydrof	uran
Oral	LD50	2,500 mg/kg (rat)
Inhalative	LC50/4 h	82.5 mg/l (rat)
Primary ir Skin corro Causes ski Serious ey Causes ser Respirator	sion/irrita n irritation e damage/ vious eye da	tion irritation

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- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- $\cdot \textit{Germ cell mutagenicity Based on available data, the classification criteria are not met.}$
- · Carcinogenicity
- Suspected of causing cancer.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- · STOT-single exposure
- May cause drowsiness or dizziness.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

# SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity:
- 78-93-3 butanone

*EC50* (48*h*) 308 mg/l (daphnia)

108-94-1 cyclohexanone

EC50 820 mg/kg (daphnia)

109-99-9 tetrahydrofuran

*EC50* 6,670 mg/kg (daphnia)

- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- $\cdot$  Additional ecological information:
- · General notes:
- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

- · 12.5 Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

### **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation

*Must not be disposed together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.* 

· European waste catalogue

08 04 09\* waste adhesives and sealants containing organic solvents or other hazardous substances

· Uncleaned packaging:

• *Recommendation: Disposal must be made according to official regulations.* 

SECTION 14: Transport informa	ution	
· 14.1 UN-Number · ADR/RID/ADN, IMDG, IATA	UN1133	
· 14.2 UN proper shipping name · ADR/RID/ADN	1133 ADHESIVES, special provision 640D	
		(Contd. on page

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IMDG, IATA	(Contd. of pag ADHESIVES
14.3 Transport hazard class(es)	
ADR/RID/ADN	
Class	3 (F1) Flammable liquids.
Label	3
IMDG, IATA	
3	
Class	3 Flammable liquide
Label	3 Flammable liquids. 3
	~
14.4 Packing group ADR/RID/ADN, IMDG, IATA	II
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user Danger code (Kemler):	Warning: Flammable liquids.
EMS Number:	- F-E,S-D
Stowage Category	A
14.7 Transport in bulk according to Ann	ex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR/RID/ADN	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E2
-	Maximum net quantity per inner packaging: 30 ml
T	Maximum net quantity per outer packaging: 500 ml
Transport category Tunnel restriction code	2 D/E
IMDG Limited augustities (LO)	57
Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1
Exception quantants (EQ)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1133 ADHESIVES, SPECIAL PROVISION 640D, 3,

**SECTION 15: Regulatory information** 

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category P5c FLAMMABLE LIQUIDS

 $\cdot$  Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t  $\cdot$  Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. 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. H351 Suspected of causing cancer. · Contact: Drs. J.W. Diesveld · Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids, Hazard Category 2 Skin Corr. 2: Skin corrosion/irritation, Hazard Category 2 Eye Dam. 1: Serious eye damage/ eye irritation, Hazard Category 1 Carc. 2: Carcinogenicity, Hazard Category 2 Flam. Liq. 2: Flammable liquids - Category 2 Flam. Liq. 3: Flammable liquids - Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Carc. 2: Carcinogenicity - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3  $\cdot$  \* Data compared to the previous version altered.