Safety data sheet
according to UK REACH

Printing date 27.02.2025 Version number 21 (replaces version 20) Revision: 27.02.2025

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

· **Product identifier**

· **Trade name: SabaPVC S3**
· **Relevant identified uses of the substance or mixture and uses advised against**
Restricted to professional users.
· **Application of the substance / the mixture** Adhesive.

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
SABA Dinxperlo BV
Meniststraat 7
NL-7091 ZZ 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:** HSE department (e-mail: sds@saba-adhesives.com)
· **Emergency telephone number:** SABA Dinxperlo BV: Tel.: +31 315 65 89 99

*

SECTION 2: Hazards identification

· **Classification of the substance or mixture**

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	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.

· **Label elements**
· **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
· **Hazard pictograms**

GHS02 GHS05 GHS07 GHS08

· **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.
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

(Contd. on page 2)

Safety data sheet
according to UK REACH

Printing date 27.02.2025 Version number 21 (replaces version 20) Revision: 27.02.2025

Trade name: SabaPVC S3

(Contd. of page 1)

· **Precautionary statements**

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+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a doctor.
P370+P378	In case of fire: Use CO2, powder or water spray to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **Mixtures**
· **Description:**
Mixture of components, as listed below. The percentage composition adds up to a total of 100% with non-hazardous ingredients.

· **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, EUH066	≥10-<45%
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; STOT SE 3, H335	≥10-<19%
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, EUH019 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 25 % STOT SE 3; C ≥ 25 %	≥0.1-<14%

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

SECTION 4: First aid measures

· **Description of first aid measures**
· **General information:**
Take affected persons out of danger area and lay down.
Remove any clothing soiled by the product.
· **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. If symptoms persist, consult a doctor.
· **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting.
If symptoms persist consult doctor.
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

(Contd. on page 3)

Safety data sheet
according to UK REACH

Trade name: SabaPVC S3

(Contd. of page 2)

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

SECTION 5: Firefighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.
· **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.
· **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

· **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
· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to section 13.
· **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

· **Precautions for safe handling**
The usual precautionary measures are to be adhered to when handling chemicals.
· **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

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

(Contd. on page 4)

Safety data sheet
according to UK REACH

(Contd. of page 3)

SECTION 8: Exposure controls/personal protection

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

78-93-3 butanone

WEL	Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV

108-94-1 cyclohexanone

WEL	Short-term value: 82 mg/m³, 20 ppm Long-term value: 41 mg/m³, 10 ppm Sk, BMGV

109-99-9 tetrahydrofuran

WEL	Short-term value: 300 mg/m³, 100 ppm Long-term value: 150 mg/m³, 50 ppm Sk

· **PNECs**

78-93-3 butanone

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)
PNEC Terrestrial ecosystem	22.5 mg/kg (Soil)

108-94-1 cyclohexanone

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 tetrahydrofuran

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 with biological limit values:**

78-93-3 butanone

BMGV	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one

(Contd. on page 5)

Safety data sheet
according to UK REACH

Trade name: SabaPVC S3

(Contd. of page 4)

108-94-1 cyclohexanone	
BMGV	2 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: cyclohexanol

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**
· **Appropriate engineering controls** No further data; see section 7.
· **Individual protection measures, such as personal protective equipment**
· **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Wash hands before breaks and at the end of work.
Keep away from foodstuffs, beverages and feed.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Remove any clothing soiled by the product.
· **Respiratory protection:**
Use suitable respiratory protective device in case of insufficient ventilation.
Recommended filter:
Filter A
· **Hand protection**

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.
· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
Neoprene gloves
· **Eye/face protection**

Tightly sealed goggles

· **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

· **Information on basic physical and chemical properties**
· **General Information**

· **Physical state**	Fluid
· **Colour:**	Colourless
· **Odour:**	Characteristic
· **Odour threshold:**	No data available.

(Contd. on page 6)

Safety data sheet
according to UK REACH

Printing date 27.02.2025 Version number 21 (replaces version 20) Revision: 27.02.2025

Trade name: SabaPVC S3

(Contd. of page 5)

· **Melting point/freezing point:**	No data available.
· **Boiling point or initial boiling point and boiling range**	65 °C
· **Flammability**	Highly flammable.
· **Lower and upper explosion limit**	
· **Lower:**	1.1 Vol %
· **Upper:**	12 Vol %
· **Flash point:**	4 °C
· **Auto-ignition temperature:**	230 °C
· **Decomposition temperature:**	No data available.
· **pH**	Not applicable.
· **Viscosity:**	
· **Dynamic at 20 °C:**	1,150 mPas
· **Solubility**	
· **water:**	Not miscible or difficult to mix.

· **Partition coefficient n-octanol/water (log value)**

78-93-3	butanone	0,3 Log POW

· **Vapour pressure at 20 °C:**	173 hPa
· **Vapour pressure at 50 °C:**	586 hPa
· **Density and/or relative density**	
· **Density at 20 °C:**	1 g/cm³
· **Vapour density**	No data available.

· **Other information**	
· **Appearance:**	
· **Form:**	Fluid
· **Important information on protection of health and environment, and on safety.**	
· **Ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· **Solvent separation test:**	No data available.
· **Solvent content:**	
· **Organic solvents:**	76.0 %
· **VOC (EC)**	722.0 g/l 76.0 %
· **Solids content:**	24.0 %
· **Change in condition**	
· **Softening point/range**	
· **Oxidising properties**	No data available.
· **Evaporation rate**	No data available.

· **Information with regard to physical hazard classes**	
· **Explosives**	Void
· **Flammable gases**	Void
· **Aerosols**	Void
· **Oxidising gases**	Void
· **Gases under pressure**	Void
· **Flammable liquids**	Highly flammable liquid and vapour.
· **Flammable solids**	Void
· **Self-reactive substances and mixtures**	Void
· **Pyrophoric liquids**	Void
· **Pyrophoric solids**	Void
· **Self-heating substances and mixtures**	Void
· **Substances and mixtures, which emit flammable gases in contact with water**	Void
· **Oxidising liquids**	Void
· **Oxidising solids**	Void

(Contd. on page 7)

Safety data sheet
according to UK REACH

Trade name: SabaPVC S3

(Contd. of page 6)

· **Organic peroxides**	Void
· **Corrosive to metals**	Void
· **Desensitised explosives**	Void
· **Additional information**	The physical data presented above are typical values and should not be construed as a specification.

SECTION 10: Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** Violent reactions with strong alkalis and oxidising agents.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:**
Hydrogen chloride (HCl)
Carbon monoxide and carbon dioxide

*
SECTION 11: Toxicological information

· **Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**		
ATE (Acute Toxicity Estimates)		
Oral	LD50	10,172 mg/kg (rat)
Dermal	LD50	5,920 mg/kg (rabbit)
Inhalative	LC50/4 h	59.2 mg/l (rat)

78-93-3 butanone		
Oral	LD50	>2,193 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

108-94-1 cyclohexanone		
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 tetrahydrofuran		
Oral	LD50	2,500 mg/kg (rat)
Inhalative	LC50/4 h	82.5 mg/l (rat)

· **Skin corrosion/irritation** Causes skin irritation.
· **Serious eye damage/irritation** Causes serious eye damage.
· **Carcinogenicity** Suspected of causing cancer.
· **STOT-single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.
· **Information on other hazards**

· **Endocrine disrupting properties**
None of the ingredients is listed.

(Contd. on page 8)

Safety data sheet
according to UK REACH

Printing date 27.02.2025 Version number 21 (replaces version 20) Revision: 27.02.2025

Trade name: SabaPVC S3

(Contd. of page 7)

*
SECTION 12: Ecological information

· **Toxicity**

· **Aquatic toxicity:**	
78-93-3 butanone	
EC50 (48h)	308 mg/l (daphnia)
108-94-1 cyclohexanone	
EC50	820 mg/kg (daphnia)
109-99-9 tetrahydrofuran	
EC50	6,670 mg/kg (daphnia)

· **Persistence and degradability** No further relevant information available.
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
· **Other adverse effects**
· **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.

SECTION 13: Disposal considerations

· **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 information

· **UN number or ID number**
· **ADR/RID/ADN, IMDG, IATA** UN1133

· **UN proper shipping name**
· **ADR/RID/ADN** 1133 ADHESIVES, special provision 640D
· **IMDG, IATA** ADHESIVES

· **Transport hazard class(es)**

· **ADR/RID/ADN**

· **Class** 3 (F1) Flammable liquids.

(Contd. on page 9)

Safety data sheet
according to UK REACH

Trade name: SabaPVC S3

(Contd. of page 8)

· **Label**	3
· **IMDG, IATA**	
	
· **Class**	3 Flammable liquids.
· **Label**	3
· **Packing group**	
· **ADR/RID/ADN, IMDG, IATA**	II
· **Environmental hazards:**	Not applicable.
· **Special precautions for user**	Warning: Flammable liquids.
· **Hazard identification number (Kemler code):**	33
· **EMS Number:**	F-E,S-D
· **Stowage Category**	B
· **Maritime transport in bulk according to IMO instruments**	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 Maximum net quantity per outer packaging: 500 ml
· **Transport category**	2
· **Tunnel restriction code**	D/E
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **UN "Model Regulation":**	UN 1133 ADHESIVES, 3, II

SECTION 15: Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Poisons Act**

· **Regulated explosives precursors**
None of the ingredients is listed.

· **Regulated poisons**
None of the ingredients is listed.

· **Reportable explosives precursors**
None of the ingredients is listed.

· **Reportable poisons**
None of the ingredients is listed.

· **Registration status**

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Seveso category** P5c FLAMMABLE LIQUIDS
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t

(Contd. on page 10)

Safety data sheet
according to UK REACH

(Contd. of page 9)

· ***Qualifying quantity (tonnes) for the application of upper-tier requirements*** *50.000 t*
· ***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.
EUH019 May form explosive peroxides.
EUH066 Repeated exposure may cause skin dryness or cracking.
· ***Contact:*** *HSE department (e-mail: sds@saba-adhesives.com).*
· ***Date of preparation / last revision***
· ***Abbreviations and acronyms:***
ADR: Accord relatif au transport international 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
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)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
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
STOT SE 3: Specific target organ toxicity - single exposure, Hazard Category 3
Acute Tox. 3: Acute toxicity, Hazard Category 3
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
· **** Data compared to the previous version altered.***