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

· **Product identifier**

· **Trade name: SabaPVC 2810**
· **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
· **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

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SECTION 2: Hazards identification

· **Classification of the substance or mixture**
Flam. Liq. 2 H225 Highly flammable liquid and vapour.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 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 GHS07

· **Signal word** Danger

· **Hazard-determining components of labelling:**
butanone
ethyl acetate
· **Hazard statements**
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
· **Precautionary statements**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.
· **Additional information:**
EUH066 Repeated exposure may cause skin dryness or cracking.

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

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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-<60%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46-xxxx	ethyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	≥10-<30%

· **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.
· **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
· **Advice for firefighters**
· **Protective equipment:**
Wear fully protective suit.
Wear self-contained respiratory protective device.

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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).
Dispose contaminated material as waste according to item 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.*

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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
141-78-6 ethyl acetate	
WEL	Short-term value: 1468 mg/m³, 400 ppm Long-term value: 734 mg/m³, 200 ppm

· **DNELs**		
78-93-3 butanone		
Dermal	DNEL Consumer	412 mg/kg BW (Chronic effects; Systemic)
	DNEL Worker	1,161 mg/kg BW (Chronic effects; Systemic)
Inhalative	DNEL Consumer	106 mg/m3 (Chronic effects; Systemic)
	DNEL Worker	600 mg/m3 (Chronic effects; Systemic)

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141-78-6 ethyl acetate		
Oral	DNEL Consumer	4.5 mg/kg BW (Chronic effects; Systemic)
Dermal	DNEL Consumer	37 mg/kg BW (Chronic effects; Systemic)
	DNEL Worker	63 mg/kg BW (Chronic effects; Systemic)
Inhalative	DNEL Consumer	734 mg/m3 (Acute effects; Local)
		734 mg/m3 (Acute effects; Systemic)
		367 mg/m3 (Chronic effects; Local)
		367 mg/m3 (Chronic effects; Systemic)
	DNEL Worker	1,468 mg/m3 (Acute effects; Local)
		1,468 mg/m3 (Acute effects; Systemic)
		734 mg/m3 (Chronic effects; Local)
		34 mg/m3 (Chronic effects; Systemic)

· **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)

141-78-6 ethyl acetate	
PNEC Aquatic ecosystem	0.26 mg/l (Fresh water)
	0.026 mg/l (Marine water)
	650 mg/l (Sewage treatment)
PNEC Aquatic ecosystem	0.34 mg/kg (Fresh water sediment)
	0.034 mg/kg (Marine water sediment)

· **Ingredients with biological limit values:**

78-93-3 butanone	
BMGV	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one

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

· **Exposure controls**
· **Appropriate engineering controls** No further data; see item 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.
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**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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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*** *Safety glasses*

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

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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.*
· ***Melting point/freezing point:***	*No data available.*
· ***Boiling point or initial boiling point and boiling range***	*77 °C*
· ***Flammability***	*Highly flammable.*
· ***Lower and upper explosion limit***	
· ***Lower:***	*1.5 Vol %*
· ***Upper:***	*11.5 Vol %*
· ***Flash point:***	*-4 °C*
· ***Ignition temperature:***	*450 °C*
· ***Decomposition temperature:***	*No data available.*
· ***pH***	*Not applicable.*
· ***Viscosity:***	
· ***Dynamic at 20 °C:***	*70 mPas*
· ***Solubility***	
· ***water:***	*Not miscible or difficult to mix.*
· ***Partition coefficient n-octanol/water (log value)***	*No data available.*
· ***Vapour pressure at 20 °C:***	*105 hPa*
· ***Density and/or relative density***	
· ***Density at 20 °C:***	*0.9 g/cm³*
· ***Vapour density***	*No data available.*

· ***Other information***	
· ***Appearance:***	
· ***Form:***	*Fluid*
· ***Important information on protection of health and environment, and on safety.***	
· ***Auto-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:***	*85.8 %*

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· **Water:**	0.0 %
· **VOC (EC)**	755.1 g/l 85.8 %
· **Solids content:**	14.3 %
· **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
· **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**
Decomposes with water, acids and alkalis.
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

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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:**

78-93-3 butanone

Oral	LD50	>2,193 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

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141-78-6 ethyl acetate		
Oral	LD50	4,100 mg/kg (mouse)
		10,170 mg/kg (rat)
		4,935 mg/kg (rabbit)
Dermal	LD50	>20,000 mg/kg (rabbit)
Inhalative	LC50/4 h	31 mg/l (mouse)
		>50 mg/l (rat)

· **Skin corrosion/irritation** Repeated exposure may cause skin dryness or cracking.
· **Serious eye damage/irritation** Causes serious eye irritation.
· **STOT-single exposure** May cause drowsiness or dizziness.
· **Information on other hazards**

· **Endocrine disrupting properties**			
78-93-3	butanone	List II	58,76%

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SECTION 12: Ecological information

· **Toxicity**

· **Aquatic toxicity:**	
78-93-3 butanone	
EC50 (48h)	308 mg/l (daphnia)
141-78-6 ethyl acetate	
EC50	>164 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.

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.

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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.
· **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

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SECTION 15: Regulatory information

· ***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*
· ***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.*

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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.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
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)
DNEL: Derived No-Effect Level (UK REACH)
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
Eye Irrit. 2: Serious eye damage/ eye irritation, Hazard Category 2
Flam. Liq. 2: Flammable liquids – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
· **** Data compared to the previous version altered.***