

1 Identification of the substance/preparation and of the company/undertaking

· Product details

- Trade name: **SABA PVC & ABS Cleaner**
- Application of the substance / the preparation

Solvents
Cleaning agent/ Cleaner

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

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- Further information obtainable from: Drs. J.W. Diesveld (e-mail: j.diesveld@saba.nl)
- Information in case of emergency: Tel.: +31 315 65 89 99

2 Hazards identification

· Hazard description:



Xi Irritant
F Highly flammable

· Information concerning particular hazards for human and environment:

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.
R 11 Highly flammable.
R 36 Irritating to eyes.
R 66 Repeated exposure may cause skin dryness or cracking.
R 67 Vapours may cause drowsiness and dizziness.

· GHS label elements



Danger

H225 - Highly flammable liquid and vapour.



Warning

H319+EUH066 - Causes serious eye irritation. Repeated exposure may cause skin dryness or cracking.
H336 - May cause drowsiness or dizziness.

· Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.

· Response:

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.

· Storage:

P405 Store locked up.

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- **Disposal:**
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Description**
78-93-3 butanone
- **Identification number(s)**
- **EINECS Number:** 201-159-0
- **Index number:** 606-002-00-3

4 First aid measures

- **General information:** 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.
Generally the product does not irritate the skin.
- **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; call for medical help immediately.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
In case of fire, the following can be released:
Carbon monoxide and carbon dioxide
- **Protective equipment:**
Wear fully protective suit.
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.

6 Accidental release measures

- **Person-related safety precautions:**
Keep people at a distance and stay on the windward side.
Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

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· **Additional information:** See Section 8 for information on personal protection equipment.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Store in cool, dry place in tightly closed receptacles.
Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
Store in a cool location.
- **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.

8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

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

78-93-3 butanone

WEL	Short-term value: 899 mg/m ³ , 300 ppm
	Long-term value: 600 mg/m ³ , 200 ppm
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- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Use suitable respiratory protective device in case of insufficient ventilation.
Short term filter device:
Filter A
- **Protection of hands:**
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.
- **Penetration time of glove material**
The exact break through 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

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· **Eye protection:**

Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and chemical properties

· **General Information**

Form:	Liquid
Colour:	Colourless
Odour:	Characteristic

· **Change in condition**

Melting point/Melting range:	-86.3°C
Boiling point/Boiling range:	79°C

· **Flash point:** -4°C· **Ignition temperature:** 514°C· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.· **Explosion limits:**

Lower:	1.8 Vol %
Upper:	11.5 Vol %

· **Vapour pressure at 20°C:** 105 hPa· **Density at 20°C:** 0.804-0.807 g/cm³· **Solubility in / Miscibility with water at 20°C:** 290 g/l· **Viscosity:**· **Dynamic at 20°C:** 5 mPas· **Solvent content:**

Organic solvents:	100.0 %
VOC (EC)	100.00 %

· **Additional information:** The physical data presented above are typical values and should not be construed as a specification.

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.· **Materials to be avoided:**· **Dangerous reactions** Violent reactions with strong alkalis and oxidizing agents.· **Dangerous decomposition products:** Carbon monoxide and carbon dioxide

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11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

78-93-3 butanone

Oral	LD50	3300 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50/4 h	20 mg/l (rat)

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** Irritating effect.

- **Sensitization:** No sensitizing effects known.

12 Ecological information

- **Ecotoxicological effects:**

- **Acquatic toxicity:**

78-93-3 butanone

EC50	12600 mg/kg (daphnia)
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- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances
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- **Uncleaned packaging:**

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

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 3 (F1) Flammable liquids.

- **Danger code (Kemler):** 33

- **UN-Number:** 1193

- **Packaging group:** II

- **Hazard label:** 3

- **Description of goods:** 1193 ETHYL METHYL KETONE (METHYL ETHYL KETONE)

- **Excepted quantities (EQ):** E2

- **Limited quantities (LQ):** LQ4

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· Tunnel restriction code D/E

· Maritime transport IMDG:



· **IMDG Class:** 3
 · **UN Number:** 1193
 · **Label** 3
 · **Packaging group:** II
 · **EMS Number:** F-E,S-D
 · **Marine pollutant:** No
 · **Proper shipping name:** ETHYL METHYL KETONE (METHYL ETHYL KETONE)

· Air transport ICAO-TI and IATA-DGR:



· **ICAO/IATA Class:** 3
 · **UN/ID Number:** 1193
 · **Label** 3
 · **Packaging group:** II
 · **Proper shipping name:** ETHYL METHYL KETONE (METHYL ETHYL KETONE)

· UN "Model Regulation": UN1193, ETHYL METHYL KETONE (METHYL ETHYL KETONE), 3, II

15 Regulatory information

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**

Xi Irritant
 F Highly flammable

· **Risk phrases:**

11 Highly flammable.
 36 Irritating to eyes.
 66 Repeated exposure may cause skin dryness or cracking.
 67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

9 Keep container in a well-ventilated place.
 16 Keep away from sources of ignition - No smoking.

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.

· **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)
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association

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*IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)**ICAO: International Civil Aviation Organization**ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)**GHS: Globally Harmonized System of Classification and Labelling of Chemicals**EINECS: European Inventory of Existing Commercial Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**VOC: Volatile Organic Compounds (USA, EU)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent*

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