



SAFETY DATA SHEET

SABA S3

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

Identification of the substance or preparation

Product name : SABA S3
Art. No. : 100653
Use of the substance/preparation : Adhesive.

Company/undertaking identification

Manufacturer : SABA Dinxperlo BV
 Industriestraat 3
 P.O. Box 3
 NL - 7090 AA Dinxperlo
 The Netherlands
 Telephone: +31 315-658999
 Telefax: +31 315-653207
 E-mail: info@saba.nl

Emergency telephone number : +31 315-658999

2. Composition/information on ingredients

Substance/preparation : Preparation

Ingredient name	CAS number	%	EC Number	Classification
Butanone	78-93-3	44	201-159-0	F; R11 Xi; R36 R66, 67
Cyclohexanone	108-94-1	18	203-631-1	R10 Xn; R20
Tetrahydrofuran	109-99-9	14	203-726-8	F; R11 R19 Xi; R36/37
See section 16 for the full text of the R Phrases declared above				

* Occupational Exposure Limit(s), if available, are listed in Section 8

3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : F; R11
 Xi; R36
 R66, 67

Physical/chemical hazards : Highly flammable.

Human health hazards : Irritating to eyes.
 Repeated exposure may cause skin dryness or cracking.
 Vapours may cause drowsiness and dizziness.

See section 11 for more detailed information on health effects and symptoms.

4. First aid measures

- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.
- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.
- Skin Contact** : In case of contact, immediately flush skin copiously with water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Obtain medical attention immediately.
- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention if irritation occurs.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

- Extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical or CO₂ extinguisher or spray.
- Special exposure hazards** : Highly flammable liquid and vapour. Vapour may cause flash fire. Vapours may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
- Hazardous thermal decomposition products** : These products are carbon oxides (CO, CO₂), halogenated compounds, hydrogen chloride. Some metallic oxides.
- Special protective equipment for fire-fighters** : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

- Personal Precautions** : Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Do not touch or walk through spilled material.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

7. Handling and storage

- Handling** : Avoid contact with eyes. Keep container closed. Use only with adequate ventilation. Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Wash thoroughly after handling.
- Storage** : Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).
- Packaging materials**
- Recommended** : Use original container.

8. Exposure controls/personal protection

- Exposure limit values** : Not available.

Exposure controls

SABA S3

- Occupational exposure controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Recommended: organic vapor filter (Type A)
- Hand protection** : Gloves complying with an approved standard should be used when a risk assessment indicates this is necessary. We have had good experiences using:
1-4 hour(s) (breakthrough time): neoprene
- Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
Recommended: safety glasses with side shields
- Skin protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Body: Recommended: Lab coat.

9. Physical and chemical properties

General information

Appearance

- Physical state** : Liquid.
- Colour** : natural
- Odour** : Characteristic.

Important health, safety and environmental information

- Boiling point** : The lowest known value is 65.5 to 66.5°C (149.9 to 151.7°F) (Tetrahydrofuran).
Weighted average: 95.3°C (203.5°F)
- Flash point** : Closed cup: <0°C (32°F).
- Explosive properties** : Extremely explosive in presence of open flames, sparks and static discharge.
- Explosion limits** : The greatest known range is Lower: 1.5% Upper: 12% (Tetrahydrofuran)
- Vapor pressure** : The highest known value is 17.3 kPa (129.8 mm Hg) (at 20°C) (Tetrahydrofuran).
Weighted average: 9.36 kPa (70.21 mm Hg) (at 20°C)
- Relative density** : Weighted average: 0.94 g/cm³ (Estimated.)
- Viscosity** : Dynamic: 900 to 1400 cP (23 °C)
- Vapor density** : The highest known value is 3.39 (Air = 1) (Cyclohexanone). Weighted average: 2.71 (Air = 1)
- Evaporation rate (butyl acetate = 1)** : The highest known value is 40 (Cyclohexanone) Weighted average: 11.35 compared to Ether (anhydrous).

Other information

- Auto-ignition temperature** : The lowest known value is 230°C (446°F) (Tetrahydrofuran).
- VOC Content** : VOC (W/W): 76

10. Stability and reactivity

- Stability** : The product is stable.
- Materials to avoid** : Highly reactive with oxidising agents, alkalis.
- Hazardous Decomposition Products** : These products are carbon oxides (CO, CO₂), halogenated compounds, hydrogen chloride. Some metallic oxides.

11. Toxicological information

Potential acute health effects

- Inhalation** : Practically non-toxic by inhalation.
Ingestion : No known significant effects or critical hazards.
Skin Contact : Slightly irritating to the skin.
Eye contact : Irritating to eyes.

Potential chronic health effects

- Carcinogenicity** : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Reproductive toxicity : No known significant effects or critical hazards.

12. Ecological information

There are no data available on the preparation itself. Do not empty into drains; dispose of this material and its container in a safe way.

- Other adverse effects** : No known significant effects or critical hazards.

13. Disposal considerations



- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

- European waste catalogue (EWC)** : 080409*

- Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste

14. Transport information

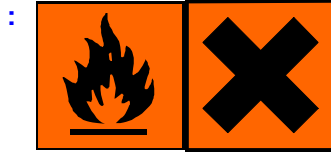
International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
ADR/RID Class	UN1133	Adhesive. (Butanone, Cyclohexanone)	3	III		Classification Code: F1 Limited quantity LQ7 CEPIC Tremcard 30GF1-sp Special provision 640: 640H
IMDG Class	UN1133	Adhesive. (Butanone, Cyclohexanone)	3	III		Emergency schedules (EmS) F-E, S-D

15. Regulatory information

EU Regulations

Hazard symbol(s)



Highly flammable, Irritant

Risk Phrases

: R11- Highly flammable.
R36- Irritating to eyes.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.

Safety Phrases

: S2- Keep out of the reach of children.
S24- Avoid contact with skin.
S46- If swallowed, seek medical advice immediately and show this container or label.
S51- Use only in well-ventilated areas.

Product use

: Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use.
- Consumer applications, Industrial applications.

Other EU regulations

Tactile warning of danger : Yes, applicable.

EC Statistical classification (Tariff Code) : 32089091

16. Other information

Full text of R phrases referred to in sections 2 and 3 - Europe

: R11- Highly flammable.
R10- Flammable.
R19- May form explosive peroxides.
R20- Harmful by inhalation.
R36- Irritating to eyes.
R36/37- Irritating to eyes and respiratory system.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.

Full text of classifications referred to in sections 2 and 3 - Europe

: F - Highly flammable
Xn - Harmful
Xi - Irritant

History

Date of issue : 29-6-2004.

Prepared by : J.W. Diesveld.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of issue : 29-6-2004.

Page: 5/5