

1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier

Product name:	BrightDAB (substrate DAB)
Catalog #	BS04-110, BS04-500, and BS04-999
Kit components	DAB Solution A: Ready-to-use Buffered H2O2 DAB Solution B: concentrated DAB solution

1.2 Relevant identified uses of the substance or mixture and uses advices against:

In vitro diagnostic use

1.3 Details of the supplier of the safety data sheet:

Immunologic a WellMed company
WellMed B.V.
't Holland 31
6921 GX Duiven
The Netherlands
Phone: +31 (0) 85 273 23 23

1.4 Emergency telephone number (24 hour), +31(0) 30 2748888, only for the doctor. Vergiftiging informatie centrum Utrecht, The Netherlands

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) no 1272/2008 (CLP)

DAB Solution B:

Mutagen CAT 2, H341
Carcinogen CAT 1B, H350

Classification according to EU Directives 67/548/EEC or 1999/45/EC

DAB Solution B:

Toxic. May cause cancer.

2.2 Label elements

According to Regulation (EC) no 1272/2008 (CLP).

Hazard pictograms



Signal Word

Danger

Hazard statements:

H341 Suspected of causing genetic defects.
 H350 May cause cancer.

Precautionary statements:

P201 Obtain special instructions before use.
 P281 Use personal protective equipment as required.
 P308+P313 If exposed or concerned: Get medical advice / attention.

Restricted to professional users

2.3 Other hazards - none

3 COMPOSITION/INFORMATION ON INGREDIENTS

Component name	Hazardous ingredient	EC nr.	Classification	Concentration
DAB Solution A	Hydrogen peroxide solution 30%	EC: 231-765-0 CAS: 7722-84-1	R5-R8- R20/22-R35	0,02 – 0,07
DAB Solution B	3,3'Diaminobenzidine hydrate Tetrahydrochloride	EC: 231-018-9 CAS: 868272-85-9	T, R45 Xn, R68	3 – 7%
	Propane-1,2-diol	EC: 200-338-0 CAS: 57-55-6	/	> 60%

4 FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5 FIRE FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture:

Carbon oxides, nitrogen oxides (NO_x), Hydrogen chloride gas.

5.3 Advice for firefighters:

Wear self contained breathing apparatus for fire fighting if necessary.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and material for containment and cleaning up:

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling:

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use.

Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Light sensitive. Hygroscopic. Store with desiccant. Handle under nitrogen, protect from moisture. Store under nitrogen.

7.3 Specific end use(s):

No data available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure Controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Solution A and Solution B: Liquid

9.2 Other Information

No data available.

10 STABILITY AND REACTIVITY

10.1 Reactivity:

No data available.

10.2 Chemical stability:

No data available.

10.3 Possibility of hazardous reactions:

No data available.

10.4 Conditions to avoid:

Exposure to light may affect product quality. Exposure to moisture may affect product quality.

10.5 Incompatible Materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Other decomposition products - no data available.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

No data available.

Skin corrosion/irritation

No data available.

Serious eye damage/eye irritation

No data available.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Specific target organ toxicity - single exposure

No data available.

Specific target organ toxicity - repeated exposure

No data available.

Aspiration hazard

No data available.

Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS: Not available.

12 ECOLOGICAL INFORMATION

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an

afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14 TRANSPORT INFORMATION

Due to small volumes, not applicable.

15 REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

No data available.

15.2 Chemical Safety Assessment

No data available.

16 OTHER INFORMATION

Risk phrases, Safety phrases, Hazard statements and Precautionary statements referred elsewhere in the safety data sheet:

- | | |
|-----------|---|
| H341 | Suspected of causing genetic defects |
| H350 | May cause cancer. |
| P201 | Obtain special instructions before use. |
| P281 | Use personal protective equipment as required. |
| P308+P313 | If exposed or concerned: Get medical advice / attention. |
| R45 | May cause cancer. |
| R68 | Possible risk of irreversible effects. |
| S53 | Avoid exposure - obtain special instructions before use. |
| S45 | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |

Label elements according to European Directive 67/548/EEC as amended.

DAB Solution B:



DAB

T

- | | |
|-----|---|
| R45 | May cause cancer. |
| S53 | Avoid exposure - obtain special instructions before use. |
| S45 | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |

The information provided on this MSDS is correct to the best of our knowledge, information and belief at

the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

It remains the user's own responsibility to make sure that the information is appropriate and complete for his specific use of this product. The user is also responsible for observing any laws and applicable guidelines.

Changes to previous version of the SDS:

- ➔ Classification and labeling according to CLP
- ➔ SDS format compliant to current regulation