

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## JBS Methylation Kit

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

Product Name: JBS Methylation Kit  
Catalog Number: CS-510  
Supplier: Jena Bioscience GmbH  
Loebstedter Strasse 71  
07749 Jena, Germany  
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WWW: <http://www.jenabioscience.com>

### 2. HAZARDS IDENTIFICATION

**Stock A:** 97% Boran-Dimethylamin-Komplex (ABC)

#### Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008  
Flam. Sol. 1, H228  
Acute Tox. 3, H301 + H311

#### Label elements

Labelling according Regulation (EC) No 1272/2008



Pictogram

Signal word Danger

Hazard statement(s)

H228 Flammable solid.  
H301 + H311 Toxic if swallowed or in contact with skin

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P280 Wear protective gloves/ protective clothing.  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/  
physician.  
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

**Solution B:** 3% Formaldehyd

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### Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin sens. 1, H317

Muta. 2, H341

Carc. 1B, H350

### Label elements

Labelling according Regulation (EC) No 1272/2008



Pictogram

Signal word

Warning

Hazard statement(s)

H317

May cause an allergic skin reaction.

H341

Suspected of causing genetic defects.

H350

May cause cancer.

Precautionary statement(s)

P201

Obtain special instructions before use.

P260

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P310 + P330

IF SWALLOWED: Immediately call a POISON CENTER or doctor/

physician. Rinse mouth.

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### Solution C:

This substance is not classified as dangerous according to Regulation (EC) No. 1272/2008 (EU-GHS/CLP).

### Solution D:

This substance is not classified as dangerous according to Regulation (EC) No. 1272/2008 (EU-GHS/CLP).

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Stock A:

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97% Boran-Dimethylamin-Komplex (ABC), CAS 74-94-2, EC-No. 200-823-7

Classification to Regulation (EC) No. 1272/2008: Flam. Sol. 1, H228, Acute Tox. 3, H301 + H311

### Solution B:

3% Formaldehyd, CAS 50-00-0

Classification to Regulation (EC) No. 1272/2008: Acute Tox. 3, H301 + H311 + H331, Skin corr. 1A, H314, Skin sens. 1, H317, STOT SE 3, H335, Muta. 2, H341

Carc. 1B, H350, STOT SE 1, H370

### Solution C:

13 % Trizma (Tris), CAS 77-86-1, EG-Nr. 201-064-4, REACH Nr. 01-2119957659-16-XXXX

This substance is not classified as dangerous according to Regulation (EC) No. 1272/2008 (EU-GHS/CLP)

### Solution D:

0,8% DTT, CAS 3483-12-3, EG-Nr. 222-468-7

Classification to Regulation (EC) No. 1272/2008: Acute Tox. 4, H302, Skin Irrit. 2, H315, Eye Irrit. 2, H319, STOT SE 3, H335

## 4. FIRST AID MEASURES

### If inhaled

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

### In case of skin contact

Wash off with soap and plenty of water.

### 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.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

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

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Avoid dust formation.

### Environmental precautions

Do not let product enter drains.

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### Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### Handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### Storage

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

Recommended storage temperature: store at 4 °C

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal protective equipment

#### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

For prolonged or repeated contact use protective gloves.

#### Eye protection

Safety glasses

#### Hygiene measures

General industrial hygiene practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form:

### Safety data

pH:

Melting point: no data available

Boiling point: no data available

Flash point: no data available

Ignition temperature: no data available

Lower explosion limit: no data available

Upper explosion limit: no data available

Water solubility: no data available

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### 10. STABILITY AND REACTIVITY

#### Storage stability

Stable under recommended storage conditions.

#### Materials to avoid

Strong oxidizing agents.

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Oxides of phosphorus, Lithium oxides.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

no data available

#### Irritation and corrosion

no data available

#### Sensitisation

no data available

#### Chronic exposure

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.

#### Signs and Symptoms of Exposure

Dermatitis

#### Potential Health Effects

Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation.
Skin:	May be harmful if absorbed through skin. May cause skin irritation.
Eyes:	May cause eye irritation.
Ingestion:	May be harmful if swallowed.
Target Organs:	Liver, Kidney

### 12. ECOLOGICAL INFORMATION

#### Elimination information (persistence and degradability)

no data available

#### Ecotoxicity effects

no data available

#### Further information on ecology

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no data available

### 13. DISPOSAL CONSIDERATIONS

#### Product

Observe all federal, state, and local environmental regulations.

#### Contaminated packaging

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

#### Stock A:

##### 14.1 UN number

ADR/RID	2926
DOT(US)	2926
IMDG	2926
IATA	2926

##### 14.2 UN proper shipping name

ADR/RID	Entzündbarer organischer fester Stoff, giftig, n.a.g. (Dimethylamin-Boran Komplex)
DOT(US)	Flammable solid, toxic, organic, n.o.s. (Dimethylamine Borane Complex)
IMDG	Flammable solid, toxic, organic, n.o.s. (Dimethylamine Borane Complex)
IATA	Flammable solid, toxic, organic, n.o.s. (Dimethylamine Borane Complex)

##### 14.3 Transport hazard class(es)

ADR/RID	4.1 (6.1)
DOT(US)	4.1 (6.1)
IMDG	4.1 (6.1)
IATA	4.1 (6.1)

##### 14.4 Packaging group

ADR/RID	III
DOT(US)	III
IMDG	III
IATA	III

##### 14.5 Environmental hazards

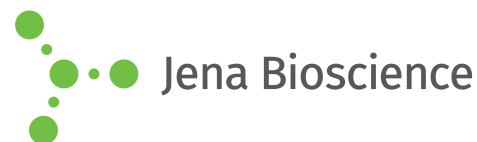
ADR/RID	No
DOT(US)	No
IMDG	No
IATA	No

#### Solution B:

##### 14.1 UN number

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## JBS Methylation Kit

ADR/RID	/
DOT(US)	/
IMDG	/
IATA	3334

### 14.2 UN proper shipping name

ADR/RID	/
DOT(US)	/
IMDG	/
IATA	Aviation regulated liquid, n.o.s. (Formaldehyde solution with 3% formaldehyde)
Passenger Aircraft	Not permitted for transport

### 14.3 Transport hazard class(es)

ADR/RID	/
DOT(US)	/
IMDG	/
IATA	9

### 14.4 Packaging group

ADR/RID	/
DOT(US)	/
IMDG	/
IATA	III

### 14.5 Environmental hazards

ADR/RID	/
DOT(US)	/
IMDG	/
IATA	No

## 15. REGULATORY INFORMATION

### Labelling according to EC Directives

The product does not need to be labelled in accordance with EC directives or respective national laws.

## 16. OTHER INFORMATION

### Further information

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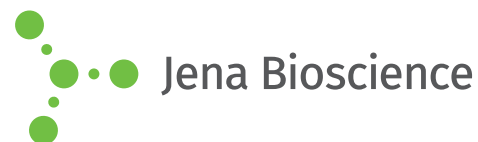
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.



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## JBS Methylation Kit

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