

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

according to Regulation (EU) No 453/2010

Print date: 18.09.2013  
Version: 3

SealBoss 1500 Comp. B  
Revision date: 18.09.2013  
Issue date: 18.09.2013

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## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifiers

Identification of the substance or mixture: SealBoss 1500 Comp. B  
PU Injection Foam Resin

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses  
isocyanate component for polyurethane foam resin

### 1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)  
SealBoss Corporation  
1669 E. Wilshire Ave.  
Santa Ana, CA 92705  
USA  
Telephone: +1-714-662-4445  
Fax: 1-714-662-4446

Dept. responsible for information:

Labor

E-mail: info@SealBoss.com

### 1.4. Emergency telephone number

ChemTel 1-800-255-3924 OR International +01-813-248-

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

Acute Tox. 4 / H332

Acute toxicity (inhalative)

Harmful if inhaled.

Skin Irrit. 2 / H315

skin corrosion/irritation

Causes skin irritation.

Eye Irrit. 2 / H319

Serious eye damage/eye irritation

Causes serious eye irritation.

Skin Sens. 1 / H317

respiratory or skin sensitisation

May cause an allergic skin reaction.

Resp. Sens. 1 / H334

respiratory or skin sensitisation

May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

Carc. 2 / H351

Carcinogenicity

Suspected of causing cancer.

STOT RE 2 / H373

Specific target organ toxicity (repeated exposure)

May cause damage to organs through prolonged or repeated exposure.

STOT SE 3 / H335

Specific target organ toxicity (single exposure)

May cause respiratory irritation.

Classification according to Directive 67/548/EEC or 1999/45/EC

This mixture is classified as hazardous according to 1999/45/EC.

Xn; R20-48/20

Harmful

Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Xi; R36/37/38

Irritant

Irritating to eyes, respiratory system and skin.

Carc. Cat. 3; R40

Carcinogenic Cat. 3 (Carc. Cat. 3)

Limited evidence of a carcinogenic effect.

R42/43

May cause sensitization by inhalation and skin contact.

### 2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Danger

Hazard statements

H332

Harmful if inhaled.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H317

May cause an allergic skin reaction.

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H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H335 May cause respiratory irritation.  
Precautionary statements  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P285 In case of inadequate ventilation wear respiratory protection.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

contains:

diphenylmethanediisocyanate, isomeres and homologues

Supplemental Hazard information (EU)

EUH204 Contains isocyanates. May produce an allergic reaction.

Labelling (67/548/EEC or 1999/45/EC)



Xn Harmful

Hazard statements

20 Harmful by inhalation.  
36/37/38 Irritating to eyes, respiratory system and skin.  
40 Limited evidence of a carcinogenic effect.  
42/43 May cause sensitization by inhalation and skin contact.  
48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Precautionary statements

24 Avoid contact with skin.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
36/37 Wear suitable protective clothing and gloves.  
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
51 Use only in well-ventilated areas.  
23 Do not breathe vapour.

contains:

diphenylmethanediisocyanate, isomeres and homologues

Special provisions concerning the labelling of certain mixtures

91 Contains isocyanates. May produce an allergic reaction.

## 2.3. Other hazards

## 3. Composition / Information on ingredients

### 3.2. Mixtures

Product description / chemical characterization

Description: isocyanate component for polyurethane foam resin

Hazardous ingredients:

Classification according to Regulation (EC) No. 1272/2008 [CLP]

EC No.	REACH No.	Wt %
CAS No.	Chemical name	Remark
INDEX No.	classification:	
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Skin Sens. 1 H317 / Resp. Sens. 1 H334 / Carc. 2 H351 / STOT RE 2 H373 / STOT SE 3 H335	50 - 100

Classification according to Directive 67/548/EEC or 1999/45/EC

EC No.	REACH No.	Wt %
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INDEX No.	classification:	Remark
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues Xn; R20-48/20 / Xi; R36/37/38 / Carc.Cat.3; R40 / R42/43	50 - 100
Additional information Full text of R-phrases: see section 16. Full text of H-phrases: see section 16.		

## 4. First-aid measures

### 4.1. Description of first aid measures

#### General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

#### After inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### Following skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

#### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

#### After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do not induce vomiting.

### 4.2. Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice.

### 4.3. Indication of any immediate medical attention and special treatment needed

## 5. Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons:  
strong water jet

### 5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

### 5.3. Special protective equipment for firefighters:

Provide a conveniently located respiratory protective device.

#### Additional information

Cool closed containers that are near the source of the fire. Co-ordinate fire-fighting measures to the fire surroundings. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours. See protective measures under point 7 and 8.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

### 6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Use appropriate container to avoid environmental contamination.

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- 6.4. Reference to other sections  
Observe protective provisions (see chapter 7 and 8).

## 7. Handling and storage

### 7.1. Precautions for safe handling

Advices on safe handling

Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation.

When using do not eat, drink or smoke. Personal protection equipment: refer to chapter 8.

Only use the material in places where open light, fire and other flammable sources can be kept away.

Always keep in containers that correspond to the material of the original container.

Follow the legal protection and safety regulations.

Precautions against fire and explosion:

Vapours are heavier than air.

### 7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

Hints on joint storage

Keep away from food, drink and animal feeding stuffs.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed.

### 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## 8. Exposure controls / Personal protection

### 8.1. Control parameters

Occupational exposure limit values:

n.a.

### 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. When spraying, wear self-contained breathing apparatus.

Occupational exposure controls

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Dand protection

For prolonged or repeated handling the following glove material must be used: nitrile rubber or butyl rubber

Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374.

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection

Wear closely fitting protective glasses in case of splashes.

Protective clothing

Wear suitable protective clothing.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains.

See chapter 7. No additional measures necessary.

## 9. Physical and chemical properties

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## 9.1. Information on basic physical and chemical properties

Appearance:

Physical state liquid  
Colour brown  
Odour characteristic

Safety relevant basis data	Unit	Method	Remark
Flash point	240 °C	DIN 53213	
Ignition temperature in °C	NB		
lower explosion limit	NB		
Upper explosion limit	NB		
Vapour pressure at 20 °C	0,01 mbar		
Density at 20 °C	1,24 g/cm <sup>3</sup>	DIN 51757	
Water solubility (g/L)	insoluble		
pH value at 20 °C	-		
Viscosity at °C	mPas		Observe technical data sheet.
solvent content:			
Organic solvents:	0 Wt %		

## 9.2. Other information

## 10. Stability and reactivity

### 10.1. Reactivity

Reacts with water, forming carbon dioxide, producing bursting hazard in closed containers due to build-up of pressure.

### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

### 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions. Reacts with water, forming carbon dioxide, producing bursting hazard in closed containers due to build-up of pressure.

### 10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

### 10.5. Incompatible materials

### 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

## 11. Toxicological information

No data on preparation itself available.

### 11.1. Information on toxicological effects

Acute toxicity

diphenylmethanediisocyanate, isomeres and homologues

oral, LD50, Rat: > 10000 mg/kg

dermal, LD50, Rabbit: > 10000 mg/kg

inhalative (dust and mist), LC50, Rat: 0,493 mg/L (4 h)

Irritant and corrosive effects

diphenylmethanediisocyanate, isomeres and homologues

Skin

Irritating to skin.

Eyes

Irritating to eyes.

Sensitisation

diphenylmethanediisocyanate, isomeres and homologues

Skin:

May cause sensitization by skin contact.

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Respiratory system:

May cause sensitization by inhalation.

Specific target organ toxicity

diphenylmethanediisocyanate, isomeres and homologues

Specific target organ toxicity (single exposure), Irritation:

May cause respiratory irritation.

Specific target organ toxicity (repeated exposure):

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

diphenylmethanediisocyanate, isomeres and homologues

Carcinogenicity

Evidence for possible carcinogenic effects in experimental animals existent.; Determined in aerosol.; No indication of human carcinogenicity.

Practical experience/human evidence

Other observations:

Because of the isocyanate components" properties of this and with consideration of similar preparations the following applies: Preparation may cause acute irritation and/or sensitization of airways which lead to tightness in thorax, short-breath and asthmatic complaints. After sensitization even concentrations below the exposure limit values may cause asthma. Repeated inhaling can lead to permanent illness of the respiratory tract.

Overall Assessment on CMR properties

The ingredients in this preparation do not meet the criteria for classification as CMR category 1 or 2. according to 67/548/EEC.

There is no information available on the preparation itself . The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

## 12. Ecological information

overall evaluation

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

### 12.1. Toxicity

diphenylmethanediisocyanate, isomeres and homologues

Fish toxicity: > 1000 mg/L (96 h)

Daphnia toxicity: > 500 mg/L (24 h)

Aquatic plants: 1640 mg/L (72 h)

Methode: OECD 201

Long-term Ecotoxicity

Toxicological data are not available.

### 12.2. Persistence and degradability

Toxicological data are not available.

### 12.3. Bioaccumulative potential

Toxicological data are not available.

Bioconcentration factor (BCF)

Toxicological data are not available.

### 12.4. Mobility in soil

Toxicological data are not available.

### 12.5. Results of PBT assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Other adverse effects

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## 13. Disposal considerations

### 13.1. Waste treatment methods

Appropriate disposal / Product

Recommendation:

Do not allow to enter into surface water or drains. Handle contaminated packages in the same way as the substance itself. This material and its container must be disposed of in a safe way. Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC:

070208 other still bottoms and reaction residues

packaging

Recommendation:

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

## 14. Transport information

No dangerous good in sense of this transport regulation.

### 14.1. UN number

n.a.

### 14.2. UN proper shipping name

### 14.3. Transport hazard class(es)

n.a.

### 14.4. Packing group

n.a.

### 14.5. Environmental hazards

Land transport (ADR/RID)

n.a.

Marine pollutant

n.a.

### 14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8.

Additional information

Land transport (ADR/RID)

tunnel restriction code

-

Sea transport (IMDG)

EmS-No.

n.a.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

## 15. Regulatory information

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

EU legislation:

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

VOC-value (in g/L) ISO 11890-2: 0,000

National regulations:

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juvenils according to the "juvenile work protection guideline" (94/33/EC).

Other regulations, restrictions and prohibition regulations:

Giscode : GISCODE PU 40

### 15.2. Chemical Safety Assessment

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Chemical safety assessments for substances in this preparation were not carried out.

## 16. Other information

Relevant R-and H-phrases (Number and full text):

Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Sens. 1 / H317	respiratory or skin sensitisation	May cause an allergic skin reaction.
Resp. Sens. 1 / H334	respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carc. 2 / H351	Carcinogenicity	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
STOT RE 2 / H373	Specific target organ toxicity (repeated exposure)	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
Xn; R20-48/20	Harmful	Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Xi; R36/37/38	Irritant	Irritating to eyes, respiratory system and skin.
Carc.Cat.3; R40	Carcinogenic Cat. 3 (Carc. Cat. 3)	Limited evidence of a carcinogenic effect.
R42/43		May cause sensitization by inhalation and skin contact.

### Additional information

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.