Printing date -

Reviewed on 05/25/2013

1 Identification of substance

- Product details
- Trade name: SealBoss 15X
- Manufacturer/Supplier: SealBoss® Corp.
 1669 E Wilshire Ave Santa Ana, CA 92705

Tel: (714) 662-4445 Fax: (714) 662-4446

Emergency Telephone Number: Use only in the event of an emergency involving a spill, leak, fire, exposure or accident involving chemicals. 949-514-1453, USA

2 Composition/Data on components

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. CAS No. INDEX No.	REACH No. Chemical name Classification:	Wt % Remark
9016-87-9	Diphenylmethanediisocyanate, isomers and homologues	50 - 100
	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	

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

EC No. CAS No. INDEX No.	REACH No. Chemical name Classification:	Wt % Remark
9016-87-9	Diphenylmethanediisocyanate, isomers and homologues	50 - 100
	Xn; R20 - 48 / 20 / Xi; R36/37/38 / Carc.Cat. 3; R40 / R42/43	

Additional information

Full text of R-phrases: see section 16. Full text of H-phrases: see section 16.

3 Hazards identification

- 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.
Resp. Sens. 1 / H334	Respiratory or skin sensitization	May cause allergy or asthma symptoms or
		breathing difficulties if inhaled.
Skin Sens. 1 / H317	Respiratory or skin sensitization	May cause an allergic skin reaction.
Carc. 2 / H351	Carcinogenicity	Suspected of causing cancer.

STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
STOT RE 2 / H373	Specific target organ toxicity (repeated exposure)	May cause damage to organs through prolonged or repeated exposure.
	Directive 67/548/EEC or 1999/45/EC zardous 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.

- Label elements

The product is classified and labeled according to EC directives or corresponding national laws. <u>Labeling according to Regulation (EC) No. 1272/2008 [CLP]</u> Hazard pictograms



Danger

Hazard statements	Harmful if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
Precautionary stater	
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	
D010	do. Continue rinsing.
P312 P403 + P233	Call a POISON CENTER or doctor/physician if you feel unwell.
	Store in a well-ventilated place. Keep container tightly closed.
contains:	
	diphenylmethanediisocyanate, isomeres and homologues
Supplemental Hazard	d information (EU)
EUH204	Contains isocyanates. May produce an allergic reaction.
Labeling (67/548/EE	<u>C or 1999/45/EC)</u>
×	
	Xi Irritant
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 stater	nents
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 vapor.

contains:

91

diphenylmethanediisocyanate, isomeres and homologues

Special provisions concerning the labeling of certain mixtures

Contains isocyanates. May produce an allergic reaction.

- Other hazards

4 First-aid measures

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.

- Most important symptoms and effects, both acute and delayed

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

- Indication of any immediate medical attention and special treatment needed

5 Firefighting measures

- 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

- Special hazards arising from the substance or mixture

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

- 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. Coordinate fire-fighting measures to the fire's surroundings. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures

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

- 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.

- Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculite, 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.

- Reference to other sections

Observe protective provisions (see chapter 7 and 8).

7 Handling and storage

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:

Vapors are heavier than air.

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 authorized 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.

- Specific end use(s)

Observe technical data sheet. Observe instructions for use.

8 Exposure controls / Personal protection

Control parameters

Occupational exposure limit values:

n.a.

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.

Hand 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

Information on basic physical and chemical properties

Appearance:				
Physical state	liquid			
Color	brown			
Odor	characteristic			
Safety relevant basic d	ata:	Unit	Method	Remark
Flash point		> 101 °C	DIN 53213	
Ignition temperature in °C		NB		
Lower explosion limit		NB		
Upper explosion limit		NB		
Vapour pressure at 20	°C	0,02 mbar		
Density at 20 °C		1,10 g/cm ³	DIN 51757	
Water solubility (g/L)		insoluble		
pH value at 20 °C				
Viscosity at 23 °C		mPas		Observe technical data sheet
Solvent content:				
Organic solvents:		0 Wt%		

- Other information

10 Stability and reactivity

- Reactivity

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

- Chemical stability

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

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.

Conditions to avoid

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

- Incompatible materials

- 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.

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. 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

- 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.

- **Persistence and degradability** Toxicological data are not available.
- Bioaccumulative potential

Toxicological data are not available. Bioconcentration factor (BCF) Toxicological data are not available.

 Mobility in soil Toxicological data are not available.

- Results of PBT assessment
 The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
- Other adverse effects

13 Disposal considerations

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:

other still bottoms and reaction residues

Packaging

070208

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.

- UN number

n.a.

- UN proper shipping name
- Transport hazard class(es)

- Packing group

n.a.

- Environmental hazards		
Land transport (ADR/RID)	n.a.	
Marine pollutant	n.a.	

- 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/DOT) tunnel restriction code

Sea transport (IMDG) EmS-No.

n.a.

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

n.a.

15 Regulatory information

- 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 juveniles according to the "juvenile work protection guideline" (94/33/EC). **Other regulations, restrictions and prohibition regulations:** Giscode : GISCODE PU 40

- Chemical Safety Assessment

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 toxicity (inhalative)	Harmful if inhaled.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Respiratory or skin sensitization	May cause allergy or asthma symptoms or
	breathing difficulties if inhaled.
Carcinogenicity	Suspected of causing cancer (state route of
	exposure if it is conclusively proven that no
	other routes of exposure cause the hazard).
Specific target organ toxicity	May cause damage to organs (or state all
(repeated exposure)	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).
Specific target organ toxicity	May cause respiratory irritation.
(single exposure)	
	Acute toxicity (inhalative) Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Carcinogenicity Specific target organ toxicity (repeated exposure) Specific target organ toxicity

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 carcinogenic effect.
R42/43		May cause sensitization by inhalation and skin
		contact.

Additional information

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