

1 Identification

- **Product identifier**
- **Trade name: POWERFOAM**
- **Application of the substance / the mixture** One Component Polyurethane B2 Foam Sealant
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
DEWALT Industrial Tools
701 East Joppa Road
Towson, MD 21286
USA
- **Information department:**
Telephone: 800-524-3244
Telefax: 877-871-1965
- **Emergency telephone number:**
CHEMTREC: 800-424-9300 (within continental USA)
CHEMTREC: +1 703 527-3887 (outside USA)

2 Hazard identification

- **Classification of the substance or mixture**

Flammable Aerosols - Category 1	H222-H229	Extremely flammable aerosol. Pressurized container: may burst if heated.
Acute Toxicity (Inhalation) - Category 4	H332	Harmful if inhaled.
Skin Irritation - Category 2	H315	Causes skin irritation.
Eye Irritation - Category 2A	H319	Causes serious eye irritation.
Respiratory Sensitizer - Category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sensitizer - Category 1	H317	May cause an allergic skin reaction.
Carcinogenicity – Category 2	H351	Suspected of causing cancer.
Reproductive Toxicity - Effects on or via Lactation	H362	May cause harm to breast-fed children.
Specific Target Organ Toxicity - Single Exposure - Category 3	H335	May cause respiratory irritation.
Specific Target Organ Toxicity - Repeated Exposure - Category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Aquatic Chr. 4	H413	May cause long lasting harmful effects to aquatic life.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02 GHS07 GHS08

- **Signal word** Danger

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- **Hazard-determining components of labeling:**
diphenylmethanediisocyanate, isomeres and homologues
- **Hazard statements**
Extremely flammable aerosol. Pressurized container: may burst if heated.
Harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
Suspected of causing cancer.
May cause harm to breast-fed children.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.
May cause long lasting harmful effects to aquatic life.
- **Precautionary statements**
Keep out of reach of children.
Obtain special instructions before use.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Do not breathe vapours/spray.
Wear protective gloves/protective clothing/eye protection.
In case of inadequate ventilation wear respiratory protection (a protective mask with an appropriate gas filter - i.e. type A1 according to standard EN 14387).
IF ON SKIN: Wash with plenty of water/soap.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Dispose of container in accordance with local/regional/national/international regulation.
- **Additional information:** Contains isocyanates. May produce an allergic reaction.
- **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 0
Reactivity = 3

- **HMIS-ratings (scale 0 - 4)**



Health = 1
Fire = 0
Reactivity = 3

3 Composition/Information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	40-50%
CAS: 115-10-6	dimethyl ether	1-10%
CAS: 13674-84-5	tris(2-chlorisopropyl)-phosphate	1-10%
CAS: 75-28-5	isobutane	1-10%

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CAS: 74-98-6	propane	(Contd. of page 2) <5%
CAS: 85535-85-9	alkanes, C14-17, chloro	1-10%

4 First-aid measures

· Description of first aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

· After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing: Immediately call a doctor.

· Information for doctor:

· Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents:

Foam

CO₂, sand, extinguishing powder. Do not use water.

· For safety reasons unsuitable extinguishing agents: Water with full jet

· Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

Hydrogen cyanide (HCN)

· Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

· Additional information

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

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Inform respective authorities in case of seepage into water course or sewage system.

Do not allow product to reach sewage system or any water course.

· **Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to item 13.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Do not flush with water or aqueous cleansing agents

Ensure adequate ventilation.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

Ensure that suitable extractors are available on processing machines

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Observe official regulations on storing packagings with pressurized containers.

· **Information about storage in one common storage facility:**

Do not store together with acids.

Do not store together with alkalis (caustic solutions).

Store away from oxidizing agents.

· **Further information about storage conditions:**

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

Protect from humidity and water.

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· **Storage class: 2 B**

· **Specific end use(s)** No further relevant information available.

8 Exposure controls/ Personal protection

· **Additional information about design of technical systems:**

No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

EL Short-term value: 0.07 mg/m³

Long-term value: 0.02 mg/m³

CAS: 115-10-6 dimethyl ether

EL Long-term value: 1000 ppm

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Trade name: POWERFOAM

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CAS: 75-28-5 isobutane

EV Long-term value: 800 ppm

CAS: 74-98-6 propane

EL Long-term value: 1000 ppm

EV Long-term value: 1,000 ppm

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:

Aerosol

Color:

According to product specification

· **Odor:**

Characteristic

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· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable, as aerosol.
· Ignition temperature:	199 °C
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Heating may cause an explosion.
· Explosion limits:	
Lower:	3.0 Vol %
Upper:	18.6 Vol %
· Density:	Not determined.
· Solubility in / Miscibility with Water:	Insoluble.
· Solvent content/VOC content:	15,4 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Contact with water releases flammable gases.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
Hydrogen cyanide (prussic acid)
Carbon monoxide
Nitrogen oxides (NOx)

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**
 - **LD/LC50 values that are relevant for classification:**
- | | | |
|---|----------|-------------------|
| CAS: 115-10-6 dimethyl ether | | |
| Inhalative | LC50/4 h | 308 mg/l (rat) |
| CAS: 13674-84-5 tris(2-chlorisopropyl)-phosphate | | |
| Oral | LD50 | 3,600 mg/kg (rat) |
- **Primary irritant effect:**
 - **on the skin:** Irritant to skin and mucous membranes.
 - **on the eye:** Irritating effect.
 - **Sensitization:**
Sensitization possible through inhalation.
Sensitization possible through skin contact.

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- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

CAS: 9016-87-9 | diphenylmethanediisocyanate, isomeres and homologues

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12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:** Toxic for fish

- **Additional ecological information:**

- **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**

- **DOT/TDG** UN1950

- **ADR, IMDG, IATA** 1950

- **UN proper shipping name**

- **DOT/TDG** Aerosols, flammable

- **ADR** 1950 Aerosols

- **IMDG** AEROSOLS

- **IATA** AEROSOLS, flammable

- **Transport hazard class(es)**

- **DOT, IMDG, IATA**

- **Class** 2.1

- **Label** 2.1

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· ADR	
· Class	2 5F Gases
· Label	2.1
· Packing group	
· DOT/TDG, ADR, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Gases
· EMS Number:	F-D,S-U
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **TSCA (Toxic Substances Control Act):**

CAS: 9016-87-9	diphenylmethanediisocyanate, isomeres and homologues
CAS: 13674-84-5	tris(2-chlorisopropyl)-phosphate
CAS: 115-10-6	dimethyl ether

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

None of the ingredients is listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

diphenylmethanediisocyanate, isomeres and homologues

· **Hazard statements**

- Extremely flammable aerosol. Pressurized container: may burst if heated.
- Harmful if inhaled.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause an allergic skin reaction.
- Suspected of causing cancer.
- May cause harm to breast-fed children.

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May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

May cause long lasting harmful effects to aquatic life.

· **Precautionary statements**

Keep out of reach of children.

Obtain special instructions before use.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Do not breathe vapours/spray.

Wear protective gloves/protective clothing/eye protection.

In case of inadequate ventilation wear respiratory protection (a protective mask with an appropriate gas filter - i.e. type A1 according to standard EN 14387).

IF ON SKIN: Wash with plenty of water/soap.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

IF exposed or concerned: Get medical advice/attention.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Dispose of container to in accordance with local/regional/national/international regulation.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.