

**Safety Data Sheet**  
acc. to OSHA HCS

Date of issue: 04/24/2025

Reviewed on 03/20/2025

**1 Identification**

- **Product identifier**
- **Trade name:** BD300 Part A (Resin)
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Big Dog Adhesives LLC  
435 Harrison Street  
Elkhart IN 46516  
USA
- **Information department:** Product safety department
- **Emergency telephone number:**  
During normal opening times: +1 (574) 350-2237  
24 Hours: CHEMTREC 1-800-424-9300

**2 Hazard(s) identification**

- **Classification of the substance or mixture**



GHS02 Flame

Flammable liquids 2

H225 Highly flammable liquid and vapor.



GHS07

Skin irritation 2

H315 Causes skin irritation.

Eye irritation 2A

H319 Causes serious eye irritation.

Sensitization - skin 1

H317 May cause an allergic skin reaction.

Specific target organ toxicity (single exposure) 3 H335 May cause respiratory irritation.

- **Label elements**

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

- **Hazard pictograms**



GHS02



GHS07

- **Signal word** Danger

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

methyl methacrylate

- **Hazard statements**

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

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*May cause an allergic skin reaction.*

*May cause respiratory irritation.*

**Precautionary statements**

*Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*

*Ground / bond container and receiving equipment.*

*Use explosion-proof [electrical/ventilating/lighting] equipment.*

*Use non-sparking tools.*

*Take action to prevent static discharge.*

*Avoid breathing dust/fume/gas/mist/vapors/spray*

*Wash thoroughly after handling.*

*Use only outdoors or in a well-ventilated area.*

*Contaminated work clothing must not be allowed out of the workplace.*

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

*If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].*

*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.*

*Call a poison center/doctor if you feel unwell.*

*Specific treatment (see on this label).*

*Take off contaminated clothing and wash it before reuse.*

*If skin irritation or rash occurs: Get medical advice/attention.*

*If eye irritation persists: Get medical advice/attention.*

*In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.*

*Store in a well-ventilated place. Keep container tightly closed.*

*Store in a well-ventilated place. Keep cool.*

*Store locked up.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

**Information pertaining to particular dangers for man and environment:**

**Classification system:**

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



Health = 2  
Fire = 3  
Reactivity = 0

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



Health = \*2  
Fire = 3  
Reactivity = 0

**Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Classification according to (d)(1)(ii) of § 1910.1200**

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

**Hazards not otherwise classified**

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

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### \* 3 Composition/information on ingredients

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

- **Dangerous components:**

80-62-6	methyl methacrylate	45–70%
79-41-4	Methacrylic Acid	1-5%

### \* 4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **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:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult 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:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### \* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.
- **Protective Action Criteria for Chemicals**

<b>PAC-1:</b>		
80-62-6	methyl methacrylate	17 ppm
79-41-4	Methacrylic Acid	6.7 ppm
80-15-9	$\alpha, \alpha$ -dimethylbenzyl hydroperoxide	0.15 ppm
617-94-7	2-Phenyl-2-propanol	0.7 ppm

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98-82-8	Cumene	50 ppm
98-86-2	acetophenone	30 ppm

**· PAC-2:**

80-62-6	methyl methacrylate	120 ppm
79-41-4	Methacrylic Acid	61 ppm
80-15-9	<i>a, a-dimethylbenzyl hydroperoxide</i>	1.6 ppm
617-94-7	2-Phenyl-2-propanol	7.7 ppm
98-82-8	Cumene	300 ppm
98-86-2	acetophenone	330 ppm

**· PAC-3:**

80-62-6	methyl methacrylate	570 ppm
79-41-4	Methacrylic Acid	220 ppm
80-15-9	<i>a, a-dimethylbenzyl hydroperoxide</i>	9.7 ppm
617-94-7	2-Phenyl-2-propanol	46 ppm
98-82-8	Cumene	730 ppm
98-86-2	acetophenone	2000* ppm

**· 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****· Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

**· 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:** Store in a cool location.**· Information about storage in one common storage facility:** Not required.**· Further information about storage conditions:**

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

**· Specific end use(s)** No further relevant information available.**\* 8 Exposure controls/personal protection****· Control parameters****· Components with limit values that require monitoring at the workplace:****80-62-6 methyl methacrylate**PEL Long-term value: 410 mg/m<sup>3</sup>, 100 ppm

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REL	Long-term value: 410 mg/m <sup>3</sup> , 100 ppm
TLV	Short-term value: 100 ppm Long-term value: 50 ppm DSEN, A4
<b>79-41-4 Methacrylic Acid</b>	
REL	Long-term value: 70 mg/m <sup>3</sup> , 20 ppm Skin
TLV	Long-term value: 20 ppm

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

- **Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **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.
  - 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

## \* 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Liquid
- **Color:** According to product specification
- **Odor:** Characteristic

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· <b>Odor threshold:</b>	Not determined.
· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	100.5°C (212.9°F)
· <b>Flammability:</b>	Highly flammable.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Flash point:</b>	10°C (50°F)
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH-value:</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Kinematic:</b>	Not determined.
· <b>Dynamic:</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
· <b>Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Vapor pressure at 20°C (68°F):</b>	44.4 hPa (33.3 mm Hg)
· <b>Vapor pressure:</b>	
· <b>Density at 20°C (68°F):</b>	0.97 g/cm³ (8.09465 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Particle characteristics</b>	Not applicable.
· <b>Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Fluid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <b>Solvent content:</b>	
· <b>VOC content:</b>	< 50 g/L mixed
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined.

## 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** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

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### 11 Toxicological information

- Information on toxicological effects

- Acute toxicity:

- LD/LC50 values that are relevant for classification:

**ATE (Acute Toxicity Estimate)**

Oral	LD50	66,000 mg/kg (rat)
Dermal	LD50	25,000 mg/kg (rabbit)

**80-62-6 methyl methacrylate**

Oral	LD50	7,872 mg/kg (rat)
<b>79-41-4 Methacrylic Acid</b>		

Oral	LD50	1,332 mg/kg (mouse)
		1,320 mg/kg (rat)
Dermal	LD50	500 mg/kg (rabbit)

- Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.

- on the eye: Irritating effect.

- Sensitization: Sensitization possible through skin contact.

- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

- Interactive effects No interactive effects between components are known.

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)

80-62-6	methyl methacrylate	3
98-82-8	Cumene	2B

- NTP (National Toxicology Program)

98-82-8	Cumene	R
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- OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.
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- Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

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### 12 Ecological information

- Toxicity

- Aquatic toxicity: No further relevant information available.

- Persistence and degradability No further relevant information available.

- Bioaccumulative potential No further relevant information available.

- Mobility in soil No further relevant information available.

- Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

- Other adverse effects

- Additional ecological information:

- General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

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*Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.*

### **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**

· <b>UN-Number</b>	
· <b>DOT, IMDG, IATA</b>	UN1133
· <b>UN proper shipping name</b>	
· <b>DOT, IATA</b>	<i>Adhesives</i>
· <b>IMDG</b>	<i>ADHESIVES</i>
· <b>Transport hazard class(es)</b>	
· <b>DOT</b>	
	
· <b>Class</b>	3
· <b>Label</b>	<i>3 Flammable liquids</i>
· <b>IMDG, IATA</b>	
	
· <b>Class</b>	3
· <b>Label</b>	<i>3 Flammable liquids</i>
· <b>Packing group</b>	
· <b>DOT, IMDG, IATA</b>	II
· <b>Environmental hazards:</b>	<i>Not applicable.</i>
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	<i>Not applicable.</i>
· <b>Transport/Additional information:</b>	
· <b>DOT</b>	
· <b>Quantity limitations</b>	<i>On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L</i>

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· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Special precautions for user</b>	Warning: Flammable liquids
· <b>Hazard identification number (Kemler code):</b> 33	
· <b>EMS Number:</b>	F-E,S-D
· <b>Stowage Category</b>	B
· <b>UN "Model Regulation":</b>	UN 1133 ADHESIVES, 3, II

*	<b>15 Regulatory information</b>	
· <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	No further relevant information available.	
· <b>Sara</b>		
· <b>Section 355 (extremely hazardous substances):</b>	None of the ingredients is listed.	
· <b>Section 313 (Specific toxic chemical listings):</b>		
80-62-6	methyl methacrylate	
80-15-9	α, α-dimethylbenzyl hydroperoxide	
98-82-8	Cumene	
98-86-2	acetophenone	
· <b>TSCA (Toxic Substances Control Act):</b>	All components have the value ACTIVE.	
· <b>Hazardous Air Pollutants</b>		
80-62-6	methyl methacrylate	
98-82-8	Cumene	
98-86-2	acetophenone	
· <b>Proposition 65</b>		
· <b>Chemicals known to cause cancer:</b>		
98-82-8	Cumene	
· <b>Chemicals known to cause reproductive toxicity for females:</b>		
None of the ingredients is listed.		
· <b>Chemicals known to cause reproductive toxicity for males:</b>		
None of the ingredients is listed.		
· <b>Chemicals known to cause developmental toxicity:</b>		
None of the ingredients is listed.		
· <b>Carcinogenic categories</b>		
· <b>EPA (Environmental Protection Agency)</b>		
80-62-6	methyl methacrylate	E, NL
98-82-8	Cumene	D, CBD
98-86-2	acetophenone	D

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**· TLV (Threshold Limit Value)**

80-62-6 methyl methacrylate

A4

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

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

**· Signal word** Danger**· Hazard-determining components of labeling:**  
methyl methacrylate**· Hazard statements**

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

**· Precautionary statements**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Ground / bond container and receiving equipment.

Use explosion-proof [electrical/ventilating/lighting] equipment.

Use non-sparking tools.

Take action to prevent static discharge.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

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

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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.

Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.

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

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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

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**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.*

**· Department issuing SDS:** Environment protection department.

**· Contact:** -

**· Date of previous version** 01/16/2025

**· Date of preparation** 04/24/2025

**· Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flammable liquids 2: Flammable liquids – Category 2

Skin irritation 2: Skin corrosion/irritation – Category 2

Eye irritation 2A: Serious eye damage/eye irritation – Category 2A

Sensitization - skin 1: Skin sensitisation – Category 1

Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3

**· \* Data compared to the previous version altered.**

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