



Date of issue: 01/21/2025 Reviewed on 01/21/2025

## 1 Identification

· Product identifier

· Trade name: BD590 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 (520) 271-7313

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.



GHS05 Corrosion

Eye damage 1 H318 Causes serious eye damage.



GHS07

Skin irritation 2 H315 Causes skin 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

GHS05

GHS07

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

(Contd. on page 2)

Date of issue: 01/21/2025 Reviewed on 01/21/2025

Trade name: BD590 Part A (Resin)

(Contd. of page 1)

Methacrylic Acid

dodecyl methacrylate

#### · Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eve damage.

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.

Immediately call a poison center/doctor.

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.

*In case of fire: Use CO2, 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 = 3Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = \*3Fire = 3

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB**: Not applicable.
- · Classification according to (d)(1)(ii) of § 1910.12000

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

(Contd. on page 3)

Date of issue: 01/21/2025 Reviewed on 01/21/2025

Trade name: BD590 Part A (Resin)

(Contd. of page 2)

#### · 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.

## 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	20-40% *	
142-90-5	dodecyl methacrylate	10-30% *	
79-41-4	Methacrylic Acid	1-5% *	

<sup>\*</sup> Actual concentration ranges are withheld as a trade secret.

### 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. Then 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:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · 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:

Dilute with plenty of water.

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).

*Use neutralizing agent.* 

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

(Contd. on page 4)

Date of issue: 01/21/2025 Reviewed on 01/21/2025

Trade name: BD590 Part A (Resin)

· Protective	Action	Critoria	for Cho	micals	
· Protective	Acuon	Crueria	ior Che	micais	

(Contd. of page 3)

<i>PAC-1</i> :		
80-62-6	methyl methacrylate	17 ppm
142-90-5	dodecyl methacrylate	6.9 ppm
79-41-4	Methacrylic Acid	6.7 ppn
98-82-8	Cumene	50 ppm
<i>PAC-2:</i>		
80-62-6	methyl methacrylate	120 ppn
142-90-5	dodecyl methacrylate	76 ppm
79-41-4	Methacrylic Acid	61 ppm
98-82-8	Cumene	300 ppn
<i>PAC-3:</i>		·
80-62-6	methyl methacrylate	570 ppn
142-90-5	dodecyl methacrylate	460 ppn
79-41-4	Methacrylic Acid	220 ppn
98-82-8	Cumene	730 ppn

### · 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:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

### 80-62-6 methyl methacrylate

PEL Long-term value: 410 mg/m³, 100 ppm

(Contd. on page 5)

(Contd. of page 4)

# Safety Data Sheet acc. to OSHA HCS

Date of issue: 01/21/2025 Reviewed on 01/21/2025

Trade name: BD590 Part A (Resin)

REL Long-term value: 410 mg/m³, 100 ppm

TLV Short-term value: 100 ppm Long-term value: 50 ppm

DSEN, A4

#### 79-41-4 Methacrylic Acid

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 skin.

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 Fluid
- · Color: According to product specification

(Contd. on page 6)

Date of issue: 01/21/2025 Reviewed on 01/21/2025

Trade name: BD590 Part A (Resin)

(Contd. of page 5)

Odor: Characteristic
 Odor threshold: Not determined.
 Melting point/Melting range: Undetermined.
 Boiling point/Boiling range: 101 °C (213.8 °F)
 Flammability: Highly flammable.

· Explosion limits:

 Lower:
 2.1 Vol %

 • Upper:
 12.5 Vol %

 • Flash point:
 10 °C (50 °F)

 • Auto igniting:
 430 °C (806 °F)

 • Decomposition temperature:
 Not determined.

 • pH-value:
 Not determined.

· Viscosity:

Kinematic: Not determined.Dynamic: Not determined.

· Solubility in / Miscibility with

Water: Fully miscible.
 Partition coefficient (n-octanol/water): Not determined.
 Vapor pressure at 20 °C (68 °F): 47 hPa (35.3 mm Hg)

· Vapor pressure:

• Density at 20 °C (68 °F): 0.94086 g/cm³ (7.85148 lbs/gal)

Relative density
 Bulk density:
 Vapor density
 Particle characteristics
 Not determined.
 Not applicable.

· Other information · Appearance:

· Form: Fluid
· Important information on protection of health and

environment, and on safety.

• **Ignition temperature:** Product is not selfigniting.

• Danger of explosion: Product is not explosive. However, formation of explosive

air/vapor mixtures are possible.

· Solvent content:

*∨VOC content:* < 50 g/L (mixed)

· Change in condition

• Evaporation rate 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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Reviewed on 01/21/2025 Date of issue: 01/21/2025

Trade name: BD590 Part A (Resin)

(Contd. of page 6)

## 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

ment to	nene tonety.			
· LD/LC5	· LD/LC50 values that are relevant for classification:			
,		oxicity Estimate)		
		33,000 mg/kg (rat)		
Dermal	LD50	12,500 mg/kg (rabbit)		
80-62-6	80-62-6 methyl methacrylate			
Oral	<i>LD50</i>	7,872 mg/kg (rat)		
79-41-4	79-41-4 Methacrylic Acid			
Oral	LD50	1,332 mg/kg (mouse)		
		1,320 mg/kg (rat) 500 mg/kg (rabbit)		
Dermal	<i>LD50</i>	500 mg/kg (rabbit)		

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Strong irritant with the danger of severe eye injury.
- · 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 (I	nternational Agency for Research on Cancer)	
80-62-6	methyl methacrylate	3
98-82-8	Cumene	2B
·NTP (N	ational Toxicology Program)	
98-82-8	Cumene	R

## · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

## 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

(Contd. on page 8)

Date of issue: 01/21/2025 Reviewed on 01/21/2025

Trade name: BD590 Part A (Resin)

(Contd. of page 7)

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

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.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

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- · UN-Number
- · DOT, IMDG, IATA

- UN1133
- · UN proper shipping name
- · DOT, IATA

· IMDG

- Adhesives ADHESIVES
- · Transport hazard class(es)
- $\cdot DOT$



· Class

3 Flammable liquids

· Label

3

· IMDG, IATA



· Class

3 Flammable liquids

·Label

3

- · Packing group
- · DOT, IMDG, IATA

II

· Environmental hazards:

- Not applicable.
- · Transport in bulk according to Annex II of
- MARPOL73/78 and the IBC Code
- Not applicable.
- · Transport/Additional information:
- $\cdot DOT$
- · Quantity limitations

On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L

(Contd. on page 9)

Date of issue: 01/21/2025 Reviewed on 01/21/2025

Trade name: BD590 Part A (Resin)

(Contd. of page 8)

· IMDG

· Limited quantities (LQ)

· Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

· Special precautions for user Warning: Flammable liquids

· Hazard identification number (Kemler code): 33 · EMS Number: F-E,S-D

· Stowage Category B

· UN "Model Regulation": UN 1133 ADHESIVES, 3, II

## 15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

5L

- · Sara
- Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

80-62-6 methyl methacrylate

98-82-8 Cumene

- · TSCA (Toxic Substances Control Act):
- All components have the value ACTIVE.
- · Hazardous Air Pollutants

80-62-6 methyl methacrylate

98-82-8 Cumene

- Proposition 65
- · Chemicals known to cause cancer:

98-82-8 Cumene

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

• <b>EP</b> A	(Environmental	Protection A	gency)
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 80-62-6
 methyl methacrylate
 E, NL

 98-82-8
 Cumene
 D, CBD

· 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.

(Contd. on page 10)

Date of issue: 01/21/2025 Reviewed on 01/21/2025

Trade name: BD590 Part A (Resin)

(Contd. of page 9)

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







GHS02

GHS05 GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

methyl methacrylate

Methacrylic Acid

dodecyl methacrylate

· Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye damage.

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.

Immediately call a poison center/doctor.

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.

In case of fire: Use CO2, 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.

## 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 01/02/2025
- Date of preparation 01/21/2025

(Contd. on page 11)

Date of issue: 01/21/2025 Reviewed on 01/21/2025

Trade name: BD590 Part A (Resin)

(Contd. of page 10)

#### · 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 damage 1: Serious eye damage/eye irritation - Category 1

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.

HS