Date of issue: 11/04/2024 Reviewed on 11/04/2024

1 Identification

· Product identifier

Trade name: BD305 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.



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.

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.

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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 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 = 2Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



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 § 1910.12000

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

· 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.

· Dangero	Dangerous components:			
80-62-6	methyl methacrylate	45-70% *		
79-41-4	Methacrylic Acid	2.5-10% *		

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* 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. 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:

CO2, 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

· PAC-1:		
80-62-6 methyl methacrylate		17 ppm
79-41-4	Methacrylic Acid	6.7 ppm
80-15-9 α, α-dimethylbenzyl hydroperoxide 617-94-7 2-Phenyl-2-propanol		0.15 ppm
		0.7 ppm
98-82-8	Cumene	50 ppm
98-86-2	acetophenone	30 ppm
· PAC-2:		
80-62-6	methyl methacrylate	120 ppm
	Methacrylic Acid	61 ppm
80-15-9	α, α-dimethylbenzyl hydroperoxide	1.6 ppm
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		(Contd. of page 3)
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	a, α-dimethylbenzyl hydroperoxide	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	e 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

· Com	ponents with limit values that require monitoring at the workplace:				
80-6.	80-62-6 methyl methacrylate				
PEL Long-term value: 410 mg/m³, 100 ppm					
REL	Long-term value: 410 mg/m³, 100 ppm				
TLV	Short-term value: 100 ppm Long-term value: 50 ppm DSEN, A4				
79-4	1-4 Methacrylic Acid				
REL	Long-term value: 70 mg/m³, 20 ppm Skin				
TLV	Long-term value: 20 ppm				
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- · 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.

· Eve 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

Odor: Characteristic
Odor threshold: Not determined.
Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.
Flammability: Highly flammable.

· Explosion limits:

Lower: Not determined.
 Upper: Not determined.
 Flash point: 10 °C (50 °F)
 Decomposition temperature: Not determined.
 pH-value: Not determined.

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· Viscosity:

• Kinematic: Not determined. • Dynamic: Not determined.

· Solubility in / Miscibility with

· Water: Not miscible or difficult to mix.

• Partition coefficient (n-octanol/water): Not determined. • Vapor pressure: Not determined.

· Vapor pressure:

Density: Not determined.
 Relative density Not determined.
 Vapor density Not determined.
 Particle characteristics 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:

• Organic solvents: < 65 %
 • VOC content: < 65 %
 • ≤ 50g/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.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50	values that	t are relevant	for c	lassification:
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ATE (Acute Toxicity Estimate)

 Oral
 LD50
 66,000 mg/kg (rat)

 Dermal
 LD50
 25,000 mg/kg (rabbit)

80-62-	6 moth	vl motl	acrylate

Oral | LD50 | 7,872 mg/kg (rat)

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| 79-41-4 | Methacrylic Acid |
| 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
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

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.

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• Uncleaned packagings:
• Recommendation: Disposal must be made according to official regulations.

UN-Number	
ON-Number DOT, IMDG, IATA	UN1133
UN proper shipping name	
DOT, IATA	Adhesives
IMDG	ADHESIVES
Transport hazard class(es)	
DOT	
FAMMABLE LOUD	
Class Label	3 Flammable liquids 3
IMDG, IATA	
Class Label	3 Flammable liquids 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:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
n n c	On cargo aircraft only: 60 L
IMDG	51
Limited quantities (LQ)	5L Codo: E2
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)	
EMS Number:	F-E,S-D
Stowage Category	В

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· 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.
- Sara

· Section 35	5 (extremely	hazardous	substances):
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None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

80-62-6 methyl methacrylate

80-15-9 α, α-dimethylbenzyl hydroperoxide

98-82-8 Cumene

98-86-2 acetophenone

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

80-62-6 methyl methacrylate

98-82-8 Cumene

98-86-2 acetophenone

- · 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

EPA (Environmental Protection Agency)			
80-62-6	methyl methacrylate	E, NL	
98-82-8	Cumene	D, CBD	
98-86-2	acetophenone	D	

· 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).

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Safety Data Sheet acc. to OSHA HCS

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· Hazard pictograms





GHS02

S02 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/eve 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.

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 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 11/04/2024
- · Date of preparation 11/04/2024
- · Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

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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.

US