

SECTION 1: Identification**1.1. Identification**

Product form : Mixture
Trade name : Weld On #46C
Product code : WO#46C

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Adhesives, binding agents
Recommended use : Adhesives, sealants

1.3. Supplier**Manufacturer**

IPS Adhesives
600 Ellis Road
Durham, NC27703-6015
USA
T 919 598 2400
www.ipsadhesives.com

1.4. Emergency telephone number

Emergency number : VelocityEHS: 800-255-3924 (Domestic)

SECTION 2: Hazard(s) identification**2.1. Classification of the substance or mixture****GHS US classification**

Flammable liquids Category 2	H225	Highly flammable liquid and vapor
Skin corrosion/irritation Category 1A	H314	Causes severe skin burns and eye damage
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Carcinogenicity Category 2	H351	Suspected of causing cancer
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335	May cause respiratory irritation

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements**GHS US labeling**

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H225 - Highly flammable liquid and vapor
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H335 - May cause respiratory irritation
H351 - Suspected of causing cancer

Precautionary statements (GHS US) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

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smoking.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Avoid release to the environment. Safety data sheet available on request.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
METHYL METHACRYLATE	CAS-No.: 80-62-6	≥ 50 – < 75	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335
2-METHYLPROPENOIC ACID	CAS-No.: 79-41-4	≥ 5 – < 10	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314
DODECYL METHACRYLATE	CAS-No.: 142-90-5	≥ 1 – < 5	STOT SE 3, H335
N,N-DIMETHYL-P-TOLUIDINE	CAS-No.: 99-97-8	< 1	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Inhalation), H331 Carc. 2, H351 STOT RE 2, H373
PARAFFIN WAX	CAS-No.: 8002-74-2	< 1	Not classified
DIBENZOYL PEROXIDE	CAS-No.: 94-36-0	< 100	Not classified
STYRENE	CAS-No.: 100-42-5	< 1	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 1B, H350 STOT RE 1, H372

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Name	Product identifier	%	GHS US classification
ETHYL ACETATE	CAS-No.: 141-78-6	< 1	Flam. Liq. 2, H225
VINYL ACETATE	CAS-No.: 108-05-4	< 1	Flam. Liq. 2, H225 Carc. 2, H351

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms:
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: If you feel unwell, seek medical advice.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
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5.2. Specific hazards arising from the chemical

Fire hazard	: Highly flammable liquid and vapor.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. NO open flames, NO sparks, and NO smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.
- Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ground/bond container and receiving equipment.
- Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available	
METHYL METHACRYLATE (80-62-6)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Methyl methacrylate
ACGIH OEL TWA [ppm]	50 ppm
ACGIH OEL STEL [ppm]	100 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr; body weight eff; pulm edema. Notations: DSEN; A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2022
USA - OSHA - Occupational Exposure Limits	
Local name	Methyl methacrylate
OSHA PEL (TWA) [1]	410 mg/m ³

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METHYL METHACRYLATE (80-62-6)	
OSHA PEL (TWA) [2]	100 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
2-METHYLPROPENOIC ACID (79-41-4)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Methacrylic acid
ACGIH OEL TWA [ppm]	20 ppm
Remark (ACGIH)	TLV® Basis: Skin & eye irr
Regulatory reference	ACGIH 2022
N,N-DIMETHYL-P-TOLUIDINE (99-97-8)	
No additional information available	
PARAFFIN WAX (8002-74-2)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Paraffin wax fume
ACGIH OEL TWA	2 mg/m ³
Remark (ACGIH)	TLV® Basis: URT irr; nausea
Regulatory reference	ACGIH 2022
STYRENE (100-42-5)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Styrene
ACGIH OEL TWA [ppm]	10 ppm
ACGIH OEL STEL [ppm]	20 ppm
Remark (ACGIH)	TLV® Basis: CNS & hearing impair; URT irr; peripheral neuropathy; visual disorders. Notations: OTO; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2022
USA - ACGIH - Biological Exposure Indices	
Local name	STYRENE
BEI (BLV)	400 mg/g Kreatinin Parameter: Mandelic acid plus phenylglyoxylic acid - Medium: urine - Sampling time: End of shift - Notations: Ns 40 µg/l Parameter: Styrene - Medium: urine - Sampling time: End of shift
Regulatory reference	ACGIH 2022
USA - OSHA - Occupational Exposure Limits	
Local name	Styrene
OSHA PEL (TWA) [2]	100 ppm
OSHA PEL C [ppm]	200 ppm
Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift	600 ppm 5 mins. in any 3 hrs.
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-2

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DODECYL METHACRYLATE (142-90-5)

No additional information available

VINYL ACETATE (108-05-4)

USA - ACGIH - Occupational Exposure Limits

Local name	Vinyl acetate
ACGIH OEL TWA [ppm]	10 ppm
ACGIH OEL STEL [ppm]	15 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2022

ETHYL ACETATE (141-78-6)

USA - ACGIH - Occupational Exposure Limits

Local name	Ethyl acetate
ACGIH OEL TWA [ppm]	400 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr
Regulatory reference	ACGIH 2022

USA - OSHA - Occupational Exposure Limits

Local name	Ethyl acetate
OSHA PEL (TWA) [1]	1400 mg/m ³
OSHA PEL (TWA) [2]	400 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

DIBENZOYL PEROXIDE (94-36-0)

USA - ACGIH - Occupational Exposure Limits

Local name	Benzoyl peroxide
ACGIH OEL TWA	5 mg/m ³
Remark (ACGIH)	TLV® Basis: URT & skin irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2022

USA - OSHA - Occupational Exposure Limits

Local name	Benzoyl peroxide
OSHA PEL (TWA) [1]	5 mg/m ³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

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Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Viscous liquid.
Color	: Off-white
Odor	: Mixture contains one or more component(s) which have the following odour:
Odor threshold	: No data available
pH	: ≈ 5
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: ≈ 12 based on MMA
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: ≈ 1
Solubility	: insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 75000 – 125000 cP based on Part A
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapor.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, No sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

METHYL METHACRYLATE (80-62-6)	
LD50 dermal rabbit	> 5000 mg/kg body weight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
2-METHYLPROPENOIC ACID (79-41-4)	
ATE US (oral)	500 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight
N,N-DIMETHYL-P-TOLUIDINE (99-97-8)	
LD50 oral rat	1650 mg/kg
LD50 oral	139 mg/kg body weight Animal: mouse, Guideline: other:
LD50 dermal rabbit	> 2000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal	> 2000 mg/kg
LC50 Inhalation - Rat	1.4 mg/l air Animal: rat, Guideline: other:
LC50 Inhalation - Rat (Vapours)	1.4 mg/l/4h
ATE US (oral)	139 mg/kg body weight
ATE US (gases)	700 ppmV/4h
ATE US (vapors)	1.4 mg/l/4h
ATE US (dust, mist)	0.5 mg/l/4h
STYRENE (100-42-5)	
LD50 oral	> 6000 mg/kg body weight Animal: hamster, Syrian, Animal sex: male
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

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STYRENE (100-42-5)	
LC50 Inhalation - Rat	11.8 mg/l/4h
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11.8 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h

DODECYL METHACRYLATE (142-90-5)	
LD50 oral rat	> 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 3000 mg/kg body weight Animal: rabbit, Guideline: other:

ETHYL ACETATE (141-78-6)	
LD50 oral	4934 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 20000 mg/kg body weight Animal: rabbit, Animal sex: male
ATE US (oral)	4934 mg/kg body weight

DIBENZOYL PEROXIDE (94-36-0)	
LD50 oral rat	> 5000 mg/kg body weight Animal: rat, Animal sex: male

Skin corrosion/irritation : Causes severe skin burns.
pH: ≈ 5

N,N-DIMETHYL-P-TOLUIDINE (99-97-8)	
pH	7.44 Temp.: 25 °C Concentration: 1 vol%

Serious eye damage/irritation : Causes serious eye damage.
pH: ≈ 5

N,N-DIMETHYL-P-TOLUIDINE (99-97-8)	
pH	7.44 Temp.: 25 °C Concentration: 1 vol%

Respiratory or skin sensitization : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Suspected of causing cancer.

METHYL METHACRYLATE (80-62-6)	
IARC group	3 - Not Classifiable

N,N-DIMETHYL-P-TOLUIDINE (99-97-8)	
IARC group	2B - Possibly Carcinogenic to Humans

STYRENE (100-42-5)	
IARC group	2A - Probably Carcinogenic to Humans
National Toxicity Program (NTP) Status	Reasonably anticipated to be Human Carcinogen

VINYL ACETATE (108-05-4)	
IARC group	2B - Possibly Carcinogenic to Humans

DIBENZOYL PEROXIDE (94-36-0)	
IARC group	3 - Not Classifiable

Reproductive toxicity : Not classified
STOT-single exposure : May cause respiratory irritation.

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METHYL METHACRYLATE (80-62-6)

STOT-single exposure	May cause respiratory irritation.
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DODECYL METHACRYLATE (142-90-5)

STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified

N,N-DIMETHYL-P-TOLUIDINE (99-97-8)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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STYRENE (100-42-5)

LOAEL (oral,rat,90 days)	2000 mg/kg body weight Animal: rat
LOAEC (inhalation,rat,vapor,90 days)	0.21 mg/l air Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
NOAEL (oral,rat,90 days)	1000 mg/kg body weight Animal: rat
NOAEL (subchronic,oral,animal/male,90 days)	10 mg/kg body weight Animal: mouse, Animal sex: male
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

VINYL ACETATE (108-05-4)

NOAEL (subchronic,oral,animal/male,90 days)	285 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
NOAEL (subchronic,oral,animal/female,90 days)	281 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

ETHYL ACETATE (141-78-6)

LOAEL (oral,rat,90 days)	3600 mg/kg body weight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
NOAEL (oral,rat,90 days)	900 mg/kg body weight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

METHYL METHACRYLATE (80-62-6)

Viscosity, kinematic	0.561 mm ² /s
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N,N-DIMETHYL-P-TOLUIDINE (99-97-8)

Viscosity, kinematic	16.364 mm ² /s
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STYRENE (100-42-5)

Viscosity, kinematic	0.77 mm ² /s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm ² /s)' Remarks on result: 'other:'
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Symptoms/effects after inhalation : May cause respiratory irritation.
Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

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METHYL METHACRYLATE (80-62-6)

LC50 - Fish [1]	> 79 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	69 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 110 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	68 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	37 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	9.4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d'

N,N-DIMETHYL-P-TOLUIDINE (99-97-8)

LC50 - Fish [1]	32.036 mg/l
LC50 - Fish [2]	46 – 52 mg/l Pimephales promelas (Fathead minnow)
EC50 72h - Algae [1]	24.37002 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

STYRENE (100-42-5)

LC50 - Fish [1]	10 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	4.7 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	4.9 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	6.3 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	2.06 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	1.01 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

VINYL ACETATE (108-05-4)

EC50 - Crustacea [1]	12.6 mg/l Test organisms (species): Daphnia magna
NOEC chronic fish	0.551 mg/l Test organisms (species): Pimephales promelas Duration: '34 d'

ETHYL ACETATE (141-78-6)

LC50 - Fish [1]	230 mg/l Test organisms (species): Pimephales promelas
NOEC (chronic)	2.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

DIBENZOYL PEROXIDE (94-36-0)

LC50 - Fish [1]	0.0602 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	0.11 mg/l Test organisms (species): Daphnia magna

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information : Flammable vapors may accumulate in the container.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

DOT NA no. : UN2924
UN-No. (TDG) : Not applicable
UN-No. (IMDG) : 2924
UN-No. (IATA) : 2924

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Flammable liquids, corrosive, n.o.s.
Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, CORROSIVE, N.O.S.
Proper Shipping Name (IATA) : Flammable liquid, corrosive, n.o.s.

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 3 (8)
Hazard labels (DOT) : 3, 8



TDG

Transport hazard class(es) (TDG) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : 3 (8)
Hazard labels (IMDG) : 3, 8



IATA

Transport hazard class(es) (IATA) : 3 (8)
Hazard labels (IATA) : 3, 8

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14.4. Packing group

Packing group (DOT)	: II
Packing group (TDG)	: Not applicable
Packing group (IMDG)	: II
Packing group (IATA)	: II

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT	
UN-No.(DOT)	: UN2924
DOT Special Provisions (49 CFR 172.102)	: IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T11 - 6 178.274(d)(2) Normal..... 178.275(d)(3) TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively. TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 243
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 5 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
TDG	
Emergency Response Guide (ERG) Number	: 132
IMDG	
Special provision (IMDG)	: 274
Limited quantities (IMDG)	: 1 L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T11
Tank special provisions (IMDG)	: TP2, TP27

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EmS-No. (Fire)	: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage)	: S-C - SPILLAGE SCHEDULE Charlie - FLAMMABLE CORROSIVE LIQUIDS
Stowage category (IMDG)	: B
Stowage and handling (IMDG)	: SW2
Properties and observations (IMDG)	: Causes burns to skin, eyes and mucous membranes.

IATA

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y340
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 352
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 363
CAO max net quantity (IATA)	: 5L
Special provision (IATA)	: A3, A803
ERG code (IATA)	: 3CH

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

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

METHYL METHACRYLATE	CAS-No. 80-62-6	≥ 50 – < 75%
STYRENE	CAS-No. 100-42-5	< 1%
VINYL ACETATE	CAS-No. 108-05-4	< 1%
DIBENZOYL PEROXIDE	CAS-No. 94-36-0	< 100%

METHYL METHACRYLATE (80-62-6)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	1000 lb
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STYRENE (100-42-5)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	1000 lb
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VINYL ACETATE (108-05-4)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	5000 lb
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RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb
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VINYL ACETATE (108-05-4)

SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb
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ETHYL ACETATE (141-78-6)

CERCLA RQ	5000 lb
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15.2. International regulations

CANADA

METHYL METHACRYLATE (80-62-6)

Listed on the Canadian DSL (Domestic Substances List) inventory.

2-METHYLPROPENOIC ACID (79-41-4)

Listed on the Canadian DSL (Domestic Substances List) inventory.

N,N-DIMETHYL-P-TOLUIDINE (99-97-8)

Listed on the Canadian DSL (Domestic Substances List) inventory.

PARAFFIN WAX (8002-74-2)

Listed on the Canadian DSL (Domestic Substances List) inventory.

STYRENE (100-42-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

DODECYL METHACRYLATE (142-90-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

VINYL ACETATE (108-05-4)

Listed on the Canadian DSL (Domestic Substances List) inventory.

ETHYL ACETATE (141-78-6)

Listed on the Canadian DSL (Domestic Substances List) inventory.

DIBENZOYL PEROXIDE (94-36-0)

Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

No additional information available

National regulations

METHYL METHACRYLATE (80-62-6)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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2-METHYLPROPENOIC ACID (79-41-4)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

N,N-DIMETHYL-P-TOLUIDINE (99-97-8)

Listed on IARC (International Agency for Research on Cancer)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

PARAFFIN WAX (8002-74-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

STYRENE (100-42-5)

Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

VINYL ACETATE (108-05-4)

Listed on IARC (International Agency for Research on Cancer)
Listed on INSQ (Mexican National Inventory of Chemical Substances)


ETHYL ACETATE (141-78-6)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

DIBENZOYL PEROXIDE (94-36-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

 **WARNING:** This product can expose you to N,N-Dimethyl-p-toluidine, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 12/21/2022

Full text of H-phrases

H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H227	Combustible liquid
H301	Toxic if swallowed
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation

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Full text of H-phrases	
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H350	May cause cancer
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.