

53910-001 Mastercool AUTO A/C SEALANT WITH DYE (OZ)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 1/7/2026 Version: 1.0

SECTION 1 Identification

1.1. Product identifier

Trade name : 53910-001 Mastercool AUTO A/C SEALANT WITH DYE (OZ)
Product code : 53910-001

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

No additional information available

1.4. Supplier's details

Mastercool Inc.
1 Aspen Drive
Randolph, NJ 07869 USA
T 973-252-9119
www.mastercool.com

1.5. Emergency phone number

Emergency number : USA PHONE:1-800-373-7542, INT'L: 1-484-951-2432
DGA/AAG ENVIRONMENTAL CONTRACT: DGA4000-048

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquid, Category 2	H225	Highly flammable liquid and vapor.
Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Skin sensitization, Category 1	H317	May cause an allergic skin reaction.
Reproductive toxicity, Category 2	H361	Suspected of damaging fertility or the unborn child.

Full text of H statements : see section 16

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H225 - Highly flammable liquid and vapor
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H361 - Suspected of damaging fertility or the unborn child

Precautionary statements (GHS US) :

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.

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P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground/Bond container and receiving equipment.
P241 - Use explosion-proof equipment.
P242 - Use non-sparking tools.
P243 - Take action to prevent static discharges.
P261 - Avoid breathing dust, fume, gas, mist, vapors, spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear protective gloves.
P302+P352 - If on skin: Wash with plenty of water.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use appropriate media to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Carboxylic Acid Ester 1,2-BENZENEDICARBOXYLIC ACID DIC9-11 BRANCHED ALKYLESTERS, C10 RICH (Constituent)	CAS-No.: 68515-49-1	15 – 40	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312
methylmethacrylate, monomer, stabilised	CAS-No.: 80-62-6	4.95 – 14.85	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335
benzeneamine,-N-phenyl-, reaction product with 2,4,4-trimethylpentene and 2-methylpropene	CAS-No.: 68411-46-1	0.01 – 5	Repr. 2, H361

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

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SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms/effects, acute and delayed

Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

Environmental precautions	: Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
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6.2. Methods and materials for containment and cleaning up

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
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See Heading 8. Exposure controls and personal protection.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

7.2. Conditions for safe storage, including incompatibilities

Storage conditions : Keep container closed when not in use.
Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

methymethacrylate, monomer, stabilised (80-62-6)

USA - ACGIH® - Threshold Limit Values

ACGIH® TLV® TWA	50 ppm
ACGIH® TLV® STEL	100 ppm

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

The use of gloves impervious to the specific material handled is advised to prevent skin contact. Suggested protective material: Nitrile, 4.5 mil thickness, tested at 3.5 ml and above with no breakthrough time after 240 minutes. Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Normally not required. Where there is potential for airborne exposure above the exposure limit an approved air purifying respirator equipped with Type R or P95 particle filters may be used. Wear appropriate mask

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

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SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear.
Color	: Green-Yellow Tint
Odor	: Characteristic
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
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
Explosion limits	: No data available
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon Dioxide.

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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

Carboxylic Acid Ester 1,2-BENZENEDICARBOXYLIC ACID DIC9-11 BRANCHED ALKYLESTERS, C10 RICH (68515-49-1)	
LD50 oral rat	2000 mg/kg (Rat)
LD50 dermal rabbit	2000 mg/kg (Rabbit)
ATE US (oral)	2000 mg/kg body weight
ATE US (dermal)	2000 mg/kg body weight

benzeneamine,-N-phenyl-, reaction product with 2,4,4-trimethylpentene and 2-methylpropene (68411-46-1)	
LD50 oral rat	> 5000 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (Equivalent or similar to OECD 402, Rat, Male / female, Experimental value, Dermal)

methylmethacrylate, monomer, stabilised (80-62-6)	
LD50 oral rat	9400 mg/kg body weight (Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	> 5000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	29.8 mg/l air (4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 1 day(s))
ATE US (oral)	9400 mg/kg body weight
ATE US (vapors)	29.8 mg/l/4h
ATE US (dust, mist)	29.8 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.

benzeneamine,-N-phenyl-, reaction product with 2,4,4-trimethylpentene and 2-methylpropene (68411-46-1)	
pH	5.1 – 6.2 (1 %, 20 - 25 °C)

methylmethacrylate, monomer, stabilised (80-62-6)	
pH	No data available in the literature

Serious eye damage/irritation : Not classified

benzeneamine,-N-phenyl-, reaction product with 2,4,4-trimethylpentene and 2-methylpropene (68411-46-1)	
pH	5.1 – 6.2 (1 %, 20 - 25 °C)

methylmethacrylate, monomer, stabilised (80-62-6)	
pH	No data available in the literature

Respiratory or skin sensitization : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified ()
Reproductive toxicity : Suspected of damaging fertility or the unborn child.
STOT-single exposure : Not classified

methylmethacrylate, monomer, stabilised (80-62-6)	
STOT-single exposure	May cause respiratory irritation.

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STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Carboxylic Acid Ester 1,2-BENZENEDICARBOXYLIC ACID DIC9-11 BRANCHED ALKYLESTERS, C10 RICH (68515-49-1)

Viscosity, kinematic 38.5 mm²/s at 40 °C

benzeneamine,-N-phenyl-, reaction product with 2,4,4-trimethylpentene and 2-methylpropene (68411-46-1)

Viscosity, kinematic 352.7 mm²/s (40 °C, OECD 114: Viscosity of Liquids)

methylmethacrylate, monomer, stabilised (80-62-6)

Viscosity, kinematic 0.564 mm²/s (20 °C, OECD 114: Viscosity of Liquids)

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 12 Ecological information

12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

benzeneamine,-N-phenyl-, reaction product with 2,4,4-trimethylpentene and 2-methylpropene (68411-46-1)

LC50 - Fish [1] > 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Static system, Fresh water, Experimental value)

EC50 - Crustacea [1] 51 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)

ErC50 algae > 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value)

methylmethacrylate, monomer, stabilised (80-62-6)

LC50 - Fish [1] > 100 mg/l (Pisces, Literature study)

EC50 - Crustacea [1] 69 mg/l (EPA OTS 797.1300, 48 h, Daphnia magna, Flow-through system, Fresh water, Experimental value, Locomotor effect)

EC50 72h - Algae [1] > 110 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)

12.2. Persistence and degradability

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Persistence and degradability Not established.

Carboxylic Acid Ester 1,2-BENZENEDICARBOXYLIC ACID DIC9-11 BRANCHED ALKYLESTERS, C10 RICH (68515-49-1)

Persistence and degradability Expected to be readily biodegradable.

benzeneamine,-N-phenyl-, reaction product with 2,4,4-trimethylpentene and 2-methylpropene (68411-46-1)

Persistence and degradability Not readily biodegradable in water.

methylmethacrylate, monomer, stabilised (80-62-6)

Persistence and degradability Readily biodegradable in water.

Biochemical oxygen demand (BOD) 0.14 g O₂/g substance

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methylmethacrylate, monomer, stabilised (80-62-6)

ThOD	1.9 g O ₂ /g substance
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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Carboxylic Acid Ester 1,2-BENZENEDICARBOXYLIC ACID DIC9-11 BRANCHED ALKYLESTERS, C10 RICH (68515-49-1)

Bioaccumulative potential	No bioaccumulation data available.
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benzeneamine,-N-phenyl-, reaction product with 2,4,4-trimethylpentene and 2-methylpropene (68411-46-1)

BCF - Fish [1]	1730 (42 day(s), Cyprinus carpio, Flow-through system, Fresh water, Read-across, GLP)
Partition coefficient n-octanol/water (Log Pow)	≥ 5 (QSAR, EPIWIN 4.00, 25 °C)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).

methylmethacrylate, monomer, stabilised (80-62-6)

Partition coefficient n-octanol/water (Log Pow)	1.4 (Experimental value, Equivalent or similar to OECD 107, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

Carboxylic Acid Ester 1,2-BENZENEDICARBOXYLIC ACID DIC9-11 BRANCHED ALKYLESTERS, C10 RICH (68515-49-1)

Surface tension	33 mN/m
Ecology - soil	Adsorbs into the soil.

benzeneamine,-N-phenyl-, reaction product with 2,4,4-trimethylpentene and 2-methylpropene (68411-46-1)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.754 – 8.947 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Ecology - soil	Adsorbs into the soil.

methylmethacrylate, monomer, stabilised (80-62-6)

Surface tension	61 mN/m (OECD 115: Surface Tension of Aqueous Solutions)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.94 – 1.9 (log Koc, EPA OTS 796.2750: Sediment and Soil Adsorption Isotherm, Experimental value, GLP)
Ecology - soil	Highly mobile in soil.

12.5. Other adverse effects

Ozone	: Not classified
Fluorinated greenhouse gases	: No
Other information	: Avoid release to the environment.

SECTION 13 Disposal considerations

Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecological waste information	: Avoid release to the environment.

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SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

UN-No. (DOT)	: Not applicable
UN-No. (TDG)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable

14.2. UN Proper Shipping Name

Proper Shipping Name (DOT)	: Not applicable
Proper Shipping Name (TDG)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable

14.3. Transport hazard class(es)

DOT

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

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

Transport hazard class(es) (IMDG)	: Not applicable
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IATA

Transport hazard class(es) (IATA)	: Not applicable
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14.4. Packing group

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

14.5. Environmental hazards

Other information	: No supplementary information available.
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14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

Not applicable

TDG

Not applicable

IMDG

Not applicable

IATA

Not applicable

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SECTION 15 Regulatory information

15.1. Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Carboxylic Acid Ester 1,2-BENZENEDICARBOXYLIC ACID DIC9-11 BRANCHED ALKYLESTERS, C10 RICH	68515-49-1	Not present	-	
benzeneamine,-N-phenyl-, reaction product with 2,4,4-trimethylpentene and 2-methylpropene	68411-46-1	Present	Active	
methylmethacrylate, monomer, stabilised	80-62-6	Not present	-	

15.2. International regulations

CANADA

benzeneamine,-N-phenyl-, reaction product with 2,4,4-trimethylpentene and 2-methylpropene (68411-46-1)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. State regulations

53910-001 Mastercool AUTO A/C SEALANT WITH DYE (OZ)	
U.S. - California - Proposition 65 - Carcinogens List	No
U.S. - California - Proposition 65 - Developmental Toxicity	Yes
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No

Carboxylic Acid Ester 1,2-BENZENEDICARBOXYLIC ACID DIC9-11 BRANCHED ALKYLESTERS, C10 RICH (68515-49-1)					
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
No	Yes	No	No		

SECTION 16 Other information

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Other information : None.

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Full text of H- and EUH-statements: see section 16	
H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child

NFPA health hazard

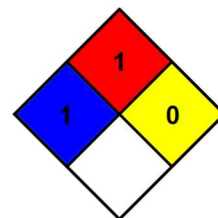
: 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard

: 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health

: 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability

: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Safety Data Sheet (SDS), USA

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