

670A Part A-Adhesive

Safety Data Sheet

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

Date of issue: 05/15/2015

Revision date: 06/24/2020

Supersedes: 05/15/2015

Version: 1.1

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : STIK-UPP Rear View Mirror Adhesive (Part A - Adhesive)
Product code : 670A
Formula : 670A

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Adhesive: component

1.3. Supplier

International Epoxies & Sealers
30241 Commerce Drive
San Antonio, FL 33576

Phone: 352-588-2400

1.4. Emergency telephone number

Emergency number : 1-800-535-5053 INTERNATIONAL: 1-352-323-3500
INFOTRAC (available 24 hours/day)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin corrosion/irritation Category 2	H315 Causes skin irritation
Serious eye damage/eye irritation Category 2	H319 Causes serious eye irritation
Specific target organ toxicity (single exposure) Category 3	H335 May cause respiratory irritation
Hazardous to the aquatic environment - Acute Hazard Category 2	H401 Toxic to aquatic life
Hazardous to the aquatic environment - Chronic Hazard Category 3	H412 Harmful to aquatic life with long lasting effects

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) :

Warning

Hazard statements (GHS-US) :

H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H401 - Toxic to aquatic life
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS-US) :

P261 - Avoid breathing fume, mist, vapors, spray
P264 - Wash hands, forearms and face thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment
P280 - Wear eye protection, protective clothing, protective gloves
P302+P352 - If on skin: Wash with plenty of Wash skin with mild soap and water.
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
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
P272 - Contaminated work clothing must not be allowed out of the workplace
P337+P313 - If eye irritation persists: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse

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P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P270 - Do not eat, drink or smoke when using this product
P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards which do not result in classification

No additional information available

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
Urethane Methacrylate Oligomer	(CAS-No.) Proprietary	25 - 60	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
methacrylic acid, stabilized	(CAS-No.) 79-41-4	< 5	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Aquatic Acute 3, H402
acrylate ester	(CAS-No.) 5888-33-5	< 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
maleic acid	(CAS-No.) 110-16-7	< 5	Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402

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 you feel unwell, seek medical advice.
First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact : Wash with plenty of soap and water.
First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion : Do NOT induce vomiting. Immediately consult a doctor/medical service.

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

- Symptoms/effects : If you feel unwell, seek medical advice.
Symptoms/effects after inhalation : Irritation of the respiratory tract.
Symptoms/effects after skin contact : Causes skin irritation.
Symptoms/effects after eye contact : Causes serious eye irritation.
Symptoms/effects after ingestion : Gastrointestinal complaints.
Chronic symptoms : May cause an allergic skin reaction. May cause dermatitis by skin contact.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : carbon dioxide (CO2), dry chemical powder, foam.

5.2. Specific hazards arising from the chemical

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Exercise caution when fighting any chemical fire.
Protection during firefighting : Firefighters should wear positive pressure self contained breathing apparatus (SCBA) and full turnout gear.

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Other information : Hazardous combustion products: . carbon oxides (CO and CO2). Nitrogen oxides. Other toxic vapors.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Isolate from fire, if possible, without unnecessary risk.

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Protective clothing. Safety glasses.

Emergency procedures : Ensure adequate ventilation, especially in confined areas. Evacuate unnecessary personnel. In case of hazardous reactions: keep upwind.

6.1.2. For emergency responders

Protective equipment : In case of insufficient ventilation, wear suitable respiratory equipment. Wear recommended personal protective equipment. Use chemically protective clothing. Chemical goggles or face shield with safety glasses. Avoid breathing vapors.

Emergency procedures : Ventilate area. Stop release. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Dam up the liquid spill.

Methods for cleaning up : Take up liquid spill into inert absorbent material. Absorbed substance: shovel into drums.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid breathing vapors. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Observe normal hygiene standards. Use personal protective equipment as required.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep container closed when not in use.

Storage temperature : ≤ 38 °C

Storage area : Keep container in a well-ventilated place. Keep container tightly closed. Meet the legal requirements. Store in a dry area. Store in a well-ventilated place.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Urethane Methacrylate Oligomer (Proprietary)		
Not applicable		
methacrylic acid, stabilized (79-41-4)		
ACGIH	ACGIH TWA (ppm)	20 ppm
maleic acid (110-16-7)		
Not applicable		
acrylate ester (5888-33-5)		
Not applicable		

8.2. Appropriate engineering controls

No additional information available

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8.3. Individual protection measures/Personal protective equipment

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear, colorless liquid. : Colourless : There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour: Characteristic odour Repulsive odour Irritating/pungent odour Pleasant odour Almost odourless Odourless Vinegar odour Mild odour Ester smell Camphor odour Unpleasant odour
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
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Poorly soluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
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

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. irritating organic vapors. Oxides of Nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

methacrylic acid, stabilized (79-41-4)	
LD50 oral rat	1320 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral)
LD50 dermal rabbit	500 - 1000 mg/kg body weight (Rabbit, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	7.1 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male/female, Experimental value, Inhalation (mixture of vapour and aerosol))
ATE US (oral)	1320 mg/kg body weight
ATE US (dermal)	500 mg/kg body weight

maleic acid (110-16-7)	
LD50 oral rat	2870 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Male/female, Experimental value, Oral)
LD50 dermal rabbit	2620 mg/kg (Equivalent or similar to OECD 402, Rabbit, Female, Read-across, Dermal)
ATE US (oral)	2870 mg/kg body weight
ATE US (dermal)	2620 mg/kg body weight

acrylate ester (5888-33-5)	
LD50 oral rat	4890 mg/kg (Rat, Literature, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Literature, Dermal)
ATE US (oral)	4890 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Not classified
Specific target organ toxicity – single exposure : May cause respiratory irritation.

Urethane Methacrylate Oligomer (Proprietary)	
Specific target organ toxicity – single exposure	May cause respiratory irritation.

acrylate ester (5888-33-5)	
Specific target organ toxicity – single exposure	May cause respiratory irritation.

Specific target organ toxicity – repeated exposure : Not classified

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

Symptoms/effects : If you feel unwell, seek medical advice.
Symptoms/effects after inhalation : Irritation of the respiratory tract.
Symptoms/effects after skin contact : Causes skin irritation.
Symptoms/effects after eye contact : Causes serious eye irritation.
Symptoms/effects after ingestion : Gastrointestinal complaints.
Chronic symptoms : May cause an allergic skin reaction. May cause dermatitis by skin contact.

SECTION 12: Ecological information

12.1. Toxicity

methacrylic acid, stabilized (79-41-4)	
LC50 fish 1	85 mg/l (EPA OTS 797.1400, 96 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	> 130 mg/l (EPA OTS 797.1300, 48 h, Daphnia magna, Flow-through system, Fresh water, Experimental value, GLP)

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methacrylic acid, stabilized (79-41-4)	
ErC50 (algae)	45 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
maleic acid (110-16-7)	
LC50 fish 1	106 mg/l (DIN 38412-15, 48 h, Leuciscus idus, Fresh water, Weight of evidence)
EC50 Daphnia 1	42.81 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 (algae)	74.35 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
acrylate ester (5888-33-5)	
LC50 fish 1	0.704 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
ErC50 (algae)	1.98 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

12.2. Persistence and degradability

methacrylic acid, stabilized (79-41-4)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.89 g O ₂ /g substance
ThOD	1.67 g O ₂ /g substance
maleic acid (110-16-7)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.38 g O ₂ /g substance
Chemical oxygen demand (COD)	0.83 g O ₂ /g substance
ThOD	0.83 g O ₂ /g substance
acrylate ester (5888-33-5)	
Persistence and degradability	Not readily biodegradable in water.

12.3. Bioaccumulative potential

methacrylic acid, stabilized (79-41-4)	
BCF other aquatic organisms 1	3 (Calculated value)
Log Pow	0.93 (Experimental value, 22 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
maleic acid (110-16-7)	
Log Pow	-1.3 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Bioaccumulative potential	Not bioaccumulative.
acrylate ester (5888-33-5)	
BCF fish 1	37 (OECD 305: Bioconcentration: Flow-Through Fish Test, 56 h, Danio rerio, Flow-through system, Fresh water, Read-across, GLP)
Log Pow	4.52 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).

12.4. Mobility in soil

methacrylic acid, stabilized (79-41-4)	
Surface tension	0.0659 N/m (20 °C, 1.01 g/l, EU Method A.5: Surface tension)
Ecology - soil	Highly mobile in soil.
maleic acid (110-16-7)	
Ecology - soil	No (test)data on mobility of the substance available.
acrylate ester (5888-33-5)	
Ecology - soil	No (test)data on mobility of the substance available.

12.5. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Disposal methods

No additional information available

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Other information : No supplementary information available.

TDG

Transport by sea

Transport document description (IMDG) : UN 1760 CORROSIVE LIQUID, N.O.S. (contains Methacrylic Acid and Maleic Acid), 8, II
UN-No. (IMDG) : 1760
Proper Shipping Name (IMDG) : CORROSIVE LIQUID, N.O.S.
Class (IMDG) : 8 - Corrosive substances
Packing group (IMDG) : II - substances presenting medium danger
Limited quantities (IMDG) : 0

Air transport

Transport document description (IATA) : UN 1760 Corrosive liquid, n.o.s. (contains Methacrylic Acid and Maleic Acid), 8, II
UN-No. (IATA) : 1760
Proper Shipping Name (IATA) : Corrosive liquid, n.o.s.
Class (IATA) : 8 - Corrosives
Packing group (IATA) : II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

49042A

EPA TSCA Regulatory Flag	All components of this product are listed on the TSCA Inventory of Chemical Substances or are exempt from listing.
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methacrylic acid, stabilized (79-41-4)

EPA TSCA Regulatory Flag	All components of this product are listed on the TSCA Inventory of Chemical Substances or are exempt from listing.
CERCLA RQ	None
SARA Section 302 Threshold Planning Quantity (TPQ)	None
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard Fire hazard

maleic acid (110-16-7)

EPA TSCA Regulatory Flag	All components of this product are listed on the TSCA Inventory of Chemical Substances or are exempt from listing.
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard

acrylate ester (5888-33-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

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acrylate ester (5888-33-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

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Components of this product are listed or exempt from listing on the Canadian Domestic Substance List.


methacrylic acid, stabilized (79-41-4)

All components of this product are listed or exempted from listing under:
TSCA(US), DSL(CDN), AICS(AUS), METI (JPN), ECL(KOR), PICCS(RP), IECSC(CN), HSNO(NZ)

maleic acid (110-16-7)

Components of this product are listed or exempt from listing on the Canadian Domestic Substance List.

15.3. US State regulations

 **WARNING:** This product can expose you to ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

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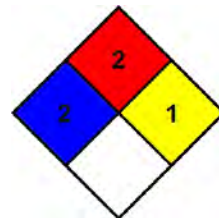
Full text of H-phrases:

H227	Combustible liquid
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

NFPA reactivity : 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.



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Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

SDS US (GHS HazCom 2012)

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