

# 670 Part A ADEHESIVE

## Safety Data Sheet

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

Date of issue: 05/15/2015

Version: 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

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

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Adhesive: component

#### 1.3. Details of the supplier of the safety data sheet

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

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: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Skin Irrit. 2	H315
Eye Irrit. 2A	H319
STOT SE 3	H335
Aquatic Acute 3	H402
Aquatic Chronic 3	H412

Full text of H-phrases: see section 16

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H402 - Harmful to aquatic life  
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS-US) :

P261 - Avoid breathing vapours  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment  
P280 - Wear eye protection, protective clothing, protective gloves  
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  
P314 - Get medical advice/attention if you feel unwell  
P363 - Wash contaminated clothing before reuse  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P403+P235 - Store in a cool and well-ventilated place  
P411 - Store at temperatures not exceeding 38C/100F  
P501 - Dispose of contents/container to an approved waste disposal plant, in accordance with

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applicable local, state, national laws  
P202 - Do not handle until all safety precautions have been read and understood  
P233 - Keep container tightly closed  
P262 - Do not get in eyes, on skin, or on clothing  
P301 + P330 + P331 - If swallowed: rinse mouth. Do NOT induce vomiting  
P302 - IF ON SKIN: Wash skin with mild soap and water.

### 2.3. Other hazards

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. Mixture

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	4.8412 - 4.9153	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
maleic acid	(CAS No) 110-16-7	< 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Aquatic Acute 2, H401

Full text of H-phrases: 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 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, both acute and delayed

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

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : carbon dioxide (CO<sub>2</sub>), dry chemical powder, foam.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.

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- Protection during firefighting : Firefighters should wear positive pressure self contained breathing apparatus (SCBA) and full turnout gear.
- Other information : Hazardous combustion products: . carbon oxides (CO and CO<sub>2</sub>). 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 eat, drink or smoke 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. Store only in a dilute solution. Meet the legal requirements. Store in a dry area. Store in a well-ventilated place.

#### 7.3. Specific end use(s)

- No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

670A		
ACGIH	Not applicable	
OSHA	Not applicable	
Urethane Methacrylate Oligomer (Proprietary)		
ACGIH	Not applicable	
OSHA	Not applicable	
methacrylic acid, stabilized (79-41-4)		
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	ACGIH STEL (ppm)	20 ppm

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<b>methacrylic acid, stabilized (79-41-4)</b>	
OSHA	Not applicable

<b>maleic acid (110-16-7)</b>	
ACGIH	Not applicable
OSHA	Not applicable

<b>acrylate ester (5888-33-5)</b>	
ACGIH	Not applicable
OSHA	Not applicable

### 8.2. Exposure controls

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.
Colour	: Colourless
Odour	: 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(s): Characteristic odour, Repulsive odour, Irritating/pungent odour, Pleasant odour, Almost odourless, Odourless, No data available on odour, Vinegar odour, Mild odour, Camphor odour, Unpleasant odour
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Poorly soluble in water. Water: Solubility in water of component(s) of the mixture : • 2-hydroxyethyl methacrylate, stabilized: > 10 g/100ml • methacrylic acid, stabilized: 9.8 g/100ml (20 °C) • tert-butyl perbenzoate: 0.01 g/100ml • diethylene glycol: 100 g/100ml (20 °C, Complete) • ethylene glycol: Complete • tetrasodium ethylenediaminetetracetate: 103 g/100ml • etidronic acid: 69 g/100ml • acetic acid: Complete • maleic acid: 79 g/100ml • Silicones and siloxanes, dimethyl-, reaction products with silica: insoluble • acrylate ester: insoluble • camphene: < 0.01 g/100ml • acrylic acid, stabilized: Complete
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

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### 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

Acute toxicity : Not classified

<b>methacrylic acid, stabilized (79-41-4)</b>	
LD50 oral rat	1060 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; 1320 mg/kg bodyweight; Rat)
LD50 dermal rabbit	500 mg/kg bodyweight (Rabbit; Experimental value; Other; 500-1000 mg/kg bodyweight; Rabbit)
LC50 inhalation rat (mg/l)	7 mg/l/4h (Rat)
ATE US (oral)	1060.000 mg/kg bodyweight
ATE US (dermal)	500.000 mg/kg bodyweight
ATE US (vapours)	7.000 mg/l/4h
ATE US (dust,mist)	7.000 mg/l/4h
<b>maleic acid (110-16-7)</b>	
LD50 oral rat	2870 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rabbit	2620 mg/kg (Rabbit; Read-across; Equivalent or similar to OECD 402)
ATE US (oral)	708.000 mg/kg bodyweight
ATE US (dermal)	1560.000 mg/kg bodyweight
<b>acrylate ester (5888-33-5)</b>	
LD50 oral rat	4890 mg/kg (Rat; Literature)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit; Literature)
ATE US (oral)	4890.000 mg/kg bodyweight

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : Irritation of the respiratory tract.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : Gastrointestinal complaints.

Chronic symptoms : May cause an allergic skin reaction. May cause dermatitis by skin contact.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

<b>methacrylic acid, stabilized (79-41-4)</b>	
LC50 fishes 1	100-180,96 h; Brachydanio rerio; Lethal
EC50 Daphnia 1	100-180,24 h; Daphnia magna; Lethal
LC50 fish 2	85 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	> 130 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	45 mg/l (72 h; Selenastrum capricornutum; Growth rate)
<b>maleic acid (110-16-7)</b>	
LC50 fishes 1	240 mg/l (48 h; Gambusia affinis)
EC50 Daphnia 1	316 mg/l (48 h; Daphnia magna; GLP)
LC50 fish 2	5 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 2	42.81 mg/l (48 h; Daphnia magna)
TLM fish 1	240 ppm (48 h; Gambusia affinis)
TLM fish 2	5 ppm (96 h; Pimephales promelas)
Threshold limit algae 1	74.35 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)

#### 12.2. Persistence and degradability

<b>methacrylic acid, stabilized (79-41-4)</b>	
Persistence and degradability	Readily biodegradable in water. Low potential for adsorption in soil. Photodegradation in the air.
Biochemical oxygen demand (BOD)	0.89 g O <sup>2</sup> /g substance
ThOD	1.67 g O <sup>2</sup> /g substance
BOD (% of ThOD)	0.5329 % ThOD
<b>maleic acid (110-16-7)</b>	
Persistence and degradability	Readily biodegradable in water. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	0.38 g O <sup>2</sup> /g substance
Chemical oxygen demand (COD)	0.83 g O <sup>2</sup> /g substance
ThOD	0.83 g O <sup>2</sup> /g substance
<b>acrylate ester (5888-33-5)</b>	
Persistence and degradability	No test data available. No (test)data on mobility of the substance available.

#### 12.3. Bioaccumulative potential

<b>methacrylic acid, stabilized (79-41-4)</b>	
BCF other aquatic organisms 1	3
Log Pow	0.93 (Experimental value; 22 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>maleic acid (110-16-7)</b>	
BCF fish 1	< 10 (72 h; Leuciscus idus)
BCF other aquatic organisms 1	11 (24 h; Chlorella sp.)
Log Pow	-1.3 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>acrylate ester (5888-33-5)</b>	
Log Pow	4.21 (Estimated value)
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).

#### 12.4. Mobility in soil

<b>methacrylic acid, stabilized (79-41-4)</b>	
Surface tension	0.0659 N/m (20 °C; 1.01 g/l)

#### 12.5. Other adverse effects

Effect on ozone layer	:
Effect on the global warming	: No known ecological damage caused by this product.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

No additional information available

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### SECTION 14: Transport information

In accordance with DOT

No dangerous good in sense of transport regulations

#### Additional information

Other information : No supplementary information available.

#### ADR

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

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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.
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	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
SARA Section 313 - Emission Reporting	None

##### 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

#### 15.2. International regulations

##### CANADA

No additional information available

##### methacrylic acid, stabilized (79-41-4)

WHMIS Classification	Class B Division 3 - Combustible Liquid Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class E - Corrosive Material Class F - Dangerously Reactive Material
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#### EU-Regulations

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

#### 15.2.2. 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.

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### 15.3. US State regulations

## SECTION 16: Other information

Full text of H-phrases::

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 4	Flammable liquids Category 4
Skin Corr. 1A	skin corrosion/irritation Category 1A
Skin Irrit. 2	skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H227	Combustible liquid
H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
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

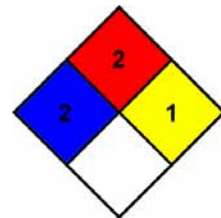
: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard

: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.

NFPA reactivity

: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 2 Moderate Hazard

Physical : 1 Slight Hazard

SDS US (GHS HazCom 2012)

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