

## Safety Data Sheet acc. to OSHA HCS

Printing Date 04/04/2018

Revision Number 4

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### 1 Identification

- **Product identifier**
- **Trade name:** *AT-8040 Part A*
- **Relevant identified uses of the substance or mixture.** *Adhesive*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Weld Mount System  
63 Epping Road  
Raymond, NH 03077*
- **Information department:** *Environment protection department.*
- **Emergency telephone number:**  
*ChemTrec: Day or Night within USA and Canada: 1-800-424-9300.  
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)*

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

*Flam. Liq. 2 H225 Highly flammable liquid and vapor.*



GHS08 Health hazard

*Carc. 1A H350 May cause cancer.*



GHS05 Corrosion

*Eye Dam. 1 H318 Causes serious eye damage.*



GHS07

*Skin Irrit. 2 H315 Causes skin irritation.*

*Skin Sens. 1 H317 May cause an allergic skin reaction.*

*STOT SE 3 H335 May cause respiratory irritation.*

- **Label elements**
- **GHS label elements** *The product is classified and labeled according to the Globally Harmonized System (GHS).*
- **Hazard pictograms**



GHS02



GHS05



GHS07



GHS08

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- **Signal word** *Danger*

- **Hazard statements**

*Highly flammable liquid and vapor.*

*Causes skin irritation.*

*Causes serious eye damage.*

*May cause an allergic skin reaction.*

*May cause cancer.*

*May cause respiratory irritation.*

- **Precautionary statements**

*Obtain special instructions before use.*

*Do not handle until all safety precautions have been read and understood.*

*Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*

*Ground/bond container and receiving equipment.*

*Use explosion-proof electrical/ventilating/lighting/equipment.*

*Use only non-sparking tools.*

*Take precautionary measures against static discharge.*

*Avoid breathing dust/fume/gas/mist/vapors/spray*

*Wash thoroughly after handling.*

*Use only outdoors or in a well-ventilated area.*

*Contaminated work clothing must not be allowed out of the workplace.*

*Wear protective gloves/protective clothing/eye protection/face protection.*

*If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*

*IF INHALED: Remove person to fresh air and keep comfortable for breathing.*

*If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.*

*Continue rinsing.*

*Immediately call a poison center/doctor.*

*IF exposed or concerned: Get medical advice/attention.*

*Specific treatment (see on this label).*

*Take off contaminated clothing and wash it before reuse.*

*If skin irritation or rash occurs: Get medical advice/attention.*

*Wash contaminated clothing before reuse.*

*In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.*

*Store in a well-ventilated place. Keep container tightly closed.*

*Store in a well-ventilated place. Keep cool.*

*Store locked up.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



*Health = 2*

*Fire = 3*

*Reactivity = 0*

- **HMIS-ratings (scale 0 - 4)**



*Health = 2*

*Fire = 3*

*Physical Hazard = 0*

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

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### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description: Mixture**

- **Hazardous components:**

80-62-6	methyl methacrylate	25-50%
14808-60-7	Quartz (SiO <sub>2</sub> )	25-50%
79-41-4	methacrylic acid	2.5-10%
110-16-7	maleic acid	2.5-10%
128-37-0	2,6-di-tert-butyl-p-cresol	2.5-10%
150-76-5	mequinol	2.5-10%
107-21-1	ethanediol	2.5-10%
80-15-9	$\alpha,\alpha$ -dimethylbenzyl hydroperoxide	$\leq 1\%$
98-82-8	cumene	$\leq 0.09\%$

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin becomes irritated seek medical attention.
- **After eye contact:** Rinse opened eye for 20 minutes under running water. Call a Doctor immediately.
- **After swallowing:**  
Rinse mouth with water.  
Do not induce vomiting; immediately call for medical help.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.  
Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**  
Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
- **Protective equipment:** Protective clothing and respiratory protective device.

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### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste in accordance with federal state and local regulations.

Ensure adequate ventilation.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

80-62-6	methyl methacrylate	17 ppm
14808-60-7	Quartz (SiO <sub>2</sub> )	0.075 mg/m <sup>3</sup>
79-41-4	methacrylic acid	6.7 ppm
110-16-7	maleic acid	2.1 mg/m <sup>3</sup>
150-76-5	mequinol	15 mg/m <sup>3</sup>
107-21-1	ethanediol	30 ppm
80-15-9	$\alpha,\alpha$ -dimethylbenzyl hydroperoxide	0.15 ppm
98-82-8	cumene	50 ppm
108-05-4	vinyl acetate	6.7 ppm
64-19-7	acetic acid	5 ppm

· **PAC-2:**

80-62-6	methyl methacrylate	120 ppm
14808-60-7	Quartz (SiO <sub>2</sub> )	33 mg/m <sup>3</sup>
79-41-4	methacrylic acid	61 ppm
110-16-7	maleic acid	23 mg/m <sup>3</sup>
150-76-5	mequinol	49 mg/m <sup>3</sup>
107-21-1	ethanediol	150 ppm
80-15-9	$\alpha,\alpha$ -dimethylbenzyl hydroperoxide	1.6 ppm
98-82-8	cumene	300 ppm
108-05-4	vinyl acetate	36 ppm
64-19-7	acetic acid	35 ppm

· **PAC-3:**

80-62-6	methyl methacrylate	570 ppm
14808-60-7	Quartz (SiO <sub>2</sub> )	200 mg/m <sup>3</sup>
79-41-4	methacrylic acid	220 ppm
110-16-7	maleic acid	140 mg/m <sup>3</sup>
150-76-5	mequinol	320 mg/m <sup>3</sup>
107-21-1	ethanediol	900 ppm
80-15-9	$\alpha,\alpha$ -dimethylbenzyl hydroperoxide	9.7 ppm

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98-82-8	cumene	730 ppm
108-05-4	vinyl acetate	180 ppm
64-19-7	acetic acid	250 ppm

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Open and handle receptacle with care.  
Prevent formation of aerosols.  
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location away from direct heat.
- **Information about storage in one common storage facility:**  
Store away from oxidizing agents.  
Store as flammable liquid.
- **Further information about storage conditions:**  
Protect from heat and direct sunlight.  
Protect from contamination.  
Storage temperature = <38C  
Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.  
At this time, the remaining constituent has no known exposure limits.

### 80-62-6 methyl methacrylate

PEL	Long-term value: 410 mg/m <sup>3</sup> , 100 ppm
REL	Long-term value: 410 mg/m <sup>3</sup> , 100 ppm
TLV	Short-term value: 410 mg/m <sup>3</sup> , 100 ppm Long-term value: 205 mg/m <sup>3</sup> , 50 ppm DSEN

### 14808-60-7 Quartz (SiO<sub>2</sub>)

PEL	see Quartz listing
REL	Long-term value: 0.05* mg/m <sup>3</sup> *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m <sup>3</sup> *as respirable fraction

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<b>79-41-4 methacrylic acid</b>	
REL	Long-term value: 70 mg/m <sup>3</sup> , 20 ppm Skin
TLV	Long-term value: 70 mg/m <sup>3</sup> , 20 ppm
<b>128-37-0 2,6-di-tert-butyl-p-cresol</b>	
REL	Long-term value: 10 mg/m <sup>3</sup>
TLV	Long-term value: 2* mg/m <sup>3</sup> *as inhalable fraction and vapor
<b>150-76-5 mequinol</b>	
REL	Long-term value: 5 mg/m <sup>3</sup>
TLV	Long-term value: 5 mg/m <sup>3</sup>
<b>107-21-1 ethanediol</b>	
TLV	Short-term value: 10** mg/m <sup>3</sup> , 50* ppm Long-term value: 25* ppm *vapor fraction: **inh. fraction, aerosol only
<b>80-15-9 α,α -dimethylbenzyl hydroperoxide</b>	
WEEL	Long-term value: 6 mg/m <sup>3</sup> , 1 ppm Skin
<b>98-82-8 cumene</b>	
PEL	Long-term value: 245 mg/m <sup>3</sup> , 50 ppm Skin
REL	Long-term value: 245 mg/m <sup>3</sup> , 50 ppm Skin
TLV	Long-term value: (246) NIC-0.5 mg/m <sup>3</sup> , (50) NIC-0.1 ppm NIC-A2

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment (see listings below)**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Material of gloves**

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

Use full face shield over protective eye wear when there is a risk of a splash.

- **Body protection:** Protective work clothing

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

<b>Form:</b>	Paste
<b>Color:</b>	white - Yellow-brown
<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	Not determined.

- **pH-value:** Not determined.

- **Change in condition**

<b>Melting point:</b>	Undetermined.
<b>Boiling point:</b>	101 °C (213.8 °F)

- **Flash point:** 10 °C (50 °F)

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:** 430 °C (806 °F)

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Flammable limits:**

<b>Lower:</b>	2.1 Vol %
<b>Upper:</b>	12.5 Vol %

- **Vapor pressure at 20 °C (68 °F):** 47 hPa (35.3 mm Hg)

- **Specific gravity at 20 °C (68 °F):** 1.38246-1.49957 g/cm<sup>3</sup> (11.53663-12.51391 lbs/gal)

- **Relative density** Not determined.

- **Vapor density** >1 at 20C

- **Evaporation rate** 3

- **Solubility in / Miscibility with**

- **Water:** Not miscible or difficult to mix.

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**

<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.

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- |                            |                                       |
|----------------------------|---------------------------------------|
| <b>· Solvent content:</b>  |                                       |
| <b>Organic solvents:</b>   | Not determined                        |
| <b>· Solids content:</b>   | Not available.                        |
| <b>· Other information</b> | VOC content: < 50 grams/liter [mixed] |

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No further information is available.
- **Conditions to avoid**  
Heat, flames, sparks.  
Avoid radical forming substances [peroxides].
- **Incompatible materials:**  
Reacts with oxidizing agents.  
Reacts with amines.  
Reacts with acids.  
Reacts with bases.  
reducing agents.
- **Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Nitrogen oxides  
Hydrogen cyanide (prussic acid)  
Isocyanate  
Hydrocarbons

## 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**
- |   |      |                     |
|---|------|---------------------|
| <b>· LD/LC50 values that are relevant for classification:</b> |      |                     |
| <b>79-41-4 methacrylic acid</b>                               |      |                     |
| Oral  | LD50 | 1,332 mg/kg (mouse) |
| Dermal  | LD50 | 500 mg/kg (rabbit)  |
- **Primary irritant effect:**
  - **on the skin:** Irritant to skin and mucous membranes.
  - **on the eye:** Causes serious eye damage
  - **Sensitization:** Skin Contact - Sensitization possible through skin contact.
  - **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant
  - **Carcinogenic categories**
- |   |                            |   |
|---|----------------------------|---|
| <b>· IARC (International Agency for Research on Cancer)</b> |                            |   |
| 80-62-6   | methyl methacrylate        | 3 |
| 14808-60-7  | Quartz (SiO <sub>2</sub> ) | 1 |
| 128-37-0  | 2,6-di-tert-butyl-p-cresol | 3 |

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98-82-8	cumene	2B
108-05-4	vinyl acetate	2B
· <b>NTP (National Toxicology Program)</b>		
14808-60-7	Quartz (SiO <sub>2</sub> )	K
98-82-8	cumene	R
· <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>		
None of the ingredients is listed.		


### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:** At present there are no ecotoxicological assessments.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Must be specially treated adhering to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

· <b>UN-Number</b>	
· <b>DOT, IMDG, IATA</b>	UN1133
· <b>UN proper shipping name</b>	
· <b>DOT</b>	Adhesives
· <b>IMDG, IATA</b>	ADHESIVES
· <b>Transport hazard class(es)</b>	
· <b>DOT</b>	
	
· <b>Class</b>	3 Flammable liquids

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· **Label** 3· **IMDG, IATA**· **Class** 3 Flammable liquids· **Label** 3· **Packing group**  
· **DOT, IMDG, IATA** II· **Environmental hazards:** Product contains environmentally hazardous substances: 2,6-di-tert-butyl-p-cresol· **Special precautions for user** Warning: Flammable liquids· **Danger code (Kemler):** 33· **EMS Number:** F-E,S-D· **Stowage Category** B· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.· **UN "Model Regulation":** UN 1133 ADHESIVES, 3, II

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Sara**· **Section 355 (extremely hazardous substances):**

108-05-4 vinyl acetate

· **Section 313 (Specific toxic chemical listings):**

80-62-6 methyl methacrylate

107-21-1 ethanediol

80-15-9  $\alpha,\alpha$ -dimethylbenzyl hydroperoxide

98-82-8 cumene

108-05-4 vinyl acetate

· **TSCA (Toxic Substances Control Act):**

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

· **Proposition 65**· **Chemicals known to cause cancer:**

98-82-8 cumene

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

107-21-1 ethanediol

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· **(DSL) Canada Domestic Substance List**

All components of this product are on the DSL (Canada Domestic Substance list) or are exempt from DSL requirements.

· **New Jersey Right-to-Know List:**

All ingredients are listed.

· **New Jersey Special Hazardous Substance List:**

80-62-6	methyl methacrylate	F3, R2
14808-60-7	Quartz (SiO <sub>2</sub> )	CA
79-41-4	methacrylic acid	CO, F2, R2
80-15-9	$\alpha,\alpha$ -dimethylbenzyl hydroperoxide	F2, R4
98-82-8	cumene	F3, R1
108-05-4	vinyl acetate	CA, F3, R2
64-19-7	acetic acid	CO, F2

· **Pennsylvania Right-to-Know List:**

All ingredients are listed.

· **Pennsylvania Special Hazardous Substance List:**

80-62-6	methyl methacrylate	E
110-16-7	maleic acid	E
107-21-1	ethanediol	E
80-15-9	$\alpha,\alpha$ -dimethylbenzyl hydroperoxide	E
98-82-8	cumene	E
108-05-4	vinyl acetate	E
64-19-7	acetic acid	E

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

80-62-6	methyl methacrylate	E, NL
98-82-8	cumene	D, CBD

· **TLV (Threshold Limit Value established by ACGIH)**

80-62-6	methyl methacrylate	A4
14808-60-7	Quartz (SiO <sub>2</sub> )	A2
128-37-0	2,6-di-tert-butyl-p-cresol	A4
107-21-1	ethanediol	A4
108-05-4	vinyl acetate	A3

· **MAK (German Maximum Workplace Concentration)**

14808-60-7	Quartz (SiO <sub>2</sub> )	1
128-37-0	2,6-di-tert-butyl-p-cresol	4
108-05-4	vinyl acetate	3A

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

14808-60-7	Quartz (SiO <sub>2</sub> )	
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· **National regulations:**

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

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· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Royal Adhesives & Sealants makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Royal Adhesives & Sealants or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

· **Department issuing SDS:** Environment protection department.

· **Creation Date:** 04/04/2018

· **Date of preparation / last revision** 04/04/2018 / 3

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 1A: Carcinogenicity – Category 1A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3