

# Safety Data Sheet

acc. to OSHA HCS

Printing Date 04/02/2018

Revision Number 1

Revision Date 04/01/2018

## 1 Identification

- **Product identifier**
- **Trade name:** AT-6030 Part A
- **Relevant identified uses of the substance or mixture.** Resin
- **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. 2 H351 Suspected of causing cancer.  
 Repr. 2 H361 Suspected of damaging fertility or the unborn child.  
 STOT RE 1 H372-H373 Causes damage to organs through prolonged or repeated exposure. May cause damage to the hearing organs through prolonged or repeated exposure.



GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.  
 Eye Dam. 1 H318 Causes serious eye damage.



GHS07

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).

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· **Hazard pictograms**



· **Signal word** *Danger*

· **Hazard statements**

*Highly flammable liquid and vapor.*

*Causes severe skin burns and eye damage.*

*May cause an allergic skin reaction.*

*Suspected of causing cancer.*

*Suspected of damaging fertility or the unborn child.*

*May cause respiratory irritation.*

*Causes damage to organs through prolonged or repeated exposure. May cause damage to the hearing organs through prolonged or repeated exposure.*

· **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.*

*Do not breathe dusts or mists.*

*Wash thoroughly after handling.*

*Do not eat, drink or smoke when using this product.*

*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 swallowed: Rinse mouth. Do NOT induce vomiting.*

*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).*

*Get medical advice/attention if you feel unwell.*

*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 = 2

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## · HMIS-ratings (scale 0 - 4)

|                 |   |                     |
|-----------------|---|---------------------|
| HEALTH          | 2 | Health = 2          |
| FIRE            | 3 | Fire = 3            |
| PHYSICAL HAZARD | 2 | Physical Hazard = 2 |

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## 3 Composition/information on ingredients

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

### · Hazardous components:

|          |                     |         |
|----------|---------------------|---------|
| 80-62-6  | methyl methacrylate | 50-100% |
| 79-41-4  | methacrylic acid    | 2.5-10% |
| 100-42-5 | styrene             | 2.5-10% |

## 4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**  
Supply fresh air or oxygen; call for 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.
- **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:**  
Foam  
CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **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).

Ensure adequate ventilation.

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

### · 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  |
| 79-41-4  | methacrylic acid    | 6.7 ppm |
| 100-42-5 | styrene             | 20 ppm  |

#### · PAC-2:

|          |                     |         |
|----------|---------------------|---------|
| 80-62-6  | methyl methacrylate | 120 ppm |
| 79-41-4  | methacrylic acid    | 61 ppm  |
| 100-42-5 | styrene             | 130 ppm |

#### · PAC-3:

|          |                     |           |
|----------|---------------------|-----------|
| 80-62-6  | methyl methacrylate | 570 ppm   |
| 79-41-4  | methacrylic acid    | 220 ppm   |
| 100-42-5 | styrene             | 1100* ppm |

## 7 Handling and storage

### · Handling:

#### · Precautions for safe handling

Open containers in a well ventilated area and avoid breathing headspace vapors.

Open and handle receptacle with care.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

#### · Information about protection against explosions and fires:

Keep container closed when not in use.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

#### · 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.

#### · Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

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· **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:**

### 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

### 79-41-4 methacrylic acid

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

### 100-42-5 styrene

PEL Long-term value: 100 ppm  
 Ceiling limit value: 200; 600\* ppm  
 \*5-min peak in any 3 hrs  
 REL Short-term value: 425 mg/m<sup>3</sup>, 100 ppm  
 Long-term value: 215 mg/m<sup>3</sup>, 50 ppm  
 TLV Short-term value: 170 mg/m<sup>3</sup>, 40 ppm  
 Long-term value: 85 mg/m<sup>3</sup>, 20 ppm  
 BEI

· **Ingredients with biological limit values:**

### 100-42-5 styrene

BEI 400 mg/g creatinine  
 Medium: urine  
 Time: end of shift  
 Parameter: Mandelic acid plus phenylglyoxylic acid (nonspecific)  
  
 0.2 mg/L  
 Medium: venous blood  
 Time: end of shift  
 Parameter: Styrene (semi-quantitative)

· **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.

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## · Protection of hands:



Protective gloves

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

## · Material of gloves

Butyl rubber, BR

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.

## · 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

Face protection (face shield)

## · Body protection: Protective work clothing

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

|                 |                 |
|-----------------|-----------------|
| Form:           | Liquid          |
| Color:          | Not determined. |
| Odor:           | Characteristic  |
| Odor threshold: | Not determined. |

· pH-value: Not determined.

#### · Change in condition

|                |                   |
|----------------|-------------------|
| Melting point: | Undetermined.     |
| Boiling point: | 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 is not explosive. However, formation of explosive air/vapor mixtures are possible.

#### · Flammable limits:

|        |            |
|--------|------------|
| Lower: | 2.1 Vol %  |
| Upper: | 12.5 Vol % |

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

· Specific gravity at 20 °C (68 °F): 1.01 g/cm<sup>3</sup> (8.42845 lbs/gal)

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|                                                   |                                    |
|---------------------------------------------------|------------------------------------|
| · <b>Relative density</b>                         | Not determined.                    |
| · <b>Vapor density</b>                            | >1 at 20C                          |
| · <b>Evaporation rate</b>                         | Not determined.                    |
| · <b>Solubility in / Miscibility with Water:</b>  | Slightly soluble.                  |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                    |
| · <b>Viscosity:</b>                               |                                    |
| <b>Dynamic:</b>                                   | Not determined.                    |
| <b>Kinematic:</b>                                 | Not determined.                    |
| · <b>Solvent content:</b>                         |                                    |
| <b>Organic solvents:</b>                          | Not available                      |
| <b>Solids content:</b>                            | Not available.                     |
| · <b>Other information</b>                        | Mixed product VOC content: <50 g/l |

## 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**  
Danger of polymerization.  
Polymerization may occur upon loss of inhibitor.
- **Conditions to avoid** Heat, flames, sparks, hot surfaces, ignition sources.
- **Incompatible materials:**  
Reacts with oxidizing agents.  
Reacts with reducing agents.
- **Hazardous decomposition products:**  
Nitrogen oxides  
Carbon monoxide and carbon dioxide  
Hydrocarbons

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

### 80-62-6 methyl methacrylate

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | 7,872 mg/kg (rat) |
|------|------|-------------------|

### 79-41-4 methacrylic acid

|      |      |                     |
|------|------|---------------------|
| Oral | LD50 | 1,332 mg/kg (mouse) |
|------|------|---------------------|

|        |      |                    |
|--------|------|--------------------|
| Dermal | LD50 | 500 mg/kg (rabbit) |
|--------|------|--------------------|

### 100-42-5 styrene

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | 5,000 mg/kg (rat) |
|------|------|-------------------|

|            |          |               |
|------------|----------|---------------|
| Inhalative | LC50/4 h | 24 mg/l (rat) |
|------------|----------|---------------|

- **Primary irritant effect:**
- **on the skin:** Causes severe skin burns.

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- **on the eye:** Causes serious eye damage
- **Sensitization:** Skin Contact - May cause allergic skin reaction.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant
- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

|          |                     |    |
|----------|---------------------|----|
| 80-62-6  | methyl methacrylate | 3  |
| 100-42-5 | styrene             | 2B |

- **NTP (National Toxicology Program)**

|          |         |   |
|----------|---------|---|
| 100-42-5 | styrene | R |
|----------|---------|---|

- **OSHA-Ca (Occupational Safety & Health Administration)**

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.
- **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

- **UN-Number**
- **DOT, IMDG, IATA** UN1993
- **UN proper shipping name**
- **DOT** Flammable liquids, n.o.s. (Methyl methacrylate monomer, stabilized)
- **IMDG, IATA** FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED)

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· Transport hazard class(es)

· DOT



· Class

3 Flammable liquids

· Label

3

· IMDG, IATA



· Class

3 Flammable liquids

· Label

3

· Packing group

· DOT, IMDG, IATA

II

· Environmental hazards:

Not applicable.

· Special precautions for user

Warning: Flammable liquids

· Danger code (Kemler):

33

· EMS Number:

F-E, S-E

· Stowage Category

B

· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

· UN "Model Regulation":

UN 1993 FLAMMABLE LIQUIDS, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED), 3, II

## 15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

80-62-6 methyl methacrylate

100-42-5 styrene

· 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:

100-42-5 styrene

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

· **(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     |
| 79-41-4  | methacrylic acid    | CO, F2, R2 |
| 100-42-5 | styrene             | CA, F3, R2 |

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

All ingredients are listed.

· **Pennsylvania Special Hazardous Substance List:**

|          |                     |   |
|----------|---------------------|---|
| 80-62-6  | methyl methacrylate | E |
| 100-42-5 | styrene             | E |

· **Carcinogen categories**

· **EPA (Environmental Protection Agency)**

|         |                     |       |
|---------|---------------------|-------|
| 80-62-6 | methyl methacrylate | E, NL |
|---------|---------------------|-------|

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

|          |                     |    |
|----------|---------------------|----|
| 80-62-6  | methyl methacrylate | A4 |
| 100-42-5 | styrene             | A4 |

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

|          |         |   |
|----------|---------|---|
| 100-42-5 | styrene | 5 |
|----------|---------|---|

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

None of the ingredients is listed.

· **National regulations:**

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

· **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:** 04/01/2018

· **Date of preparation / last revision** 04/02/2018 / -

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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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  
BEI: Biological Exposure Limit  
Flam. Liq. 2: Flammable liquids – Category 2  
Skin Corr. 1A: Skin corrosion/irritation – Category 1A  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
Carc. 2: Carcinogenicity – Category 2  
Repr. 2: Reproductive toxicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

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### 1 Identification

- **Product identifier**
- **Trade name:** AT-6030 Part B
- **Relevant identified uses of the substance or mixture.** Activator
- **Application of the substance / the mixture** Activator
- **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**



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

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

Flam. Liq. 4 H227 Combustible liquid.

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



GHS07

- **Signal word** Warning
- **Hazard statements**  
Combustible liquid.  
Causes serious eye irritation.  
May cause an allergic skin reaction.
- **Precautionary statements**  
Keep away from flames and hot surfaces. – No smoking.  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Wash thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If on skin: Wash with plenty of water.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.

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

Specific treatment (see on this label).

If eye irritation persists: 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 cool.

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

• **Classification system:**

• **NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 1

Reactivity = 1

• **HMIS-ratings (scale 0 - 4)**

|                 |   |
|-----------------|---|
| HEALTH          | 1 |
| FIRE            | 1 |
| PHYSICAL HAZARD | 1 |

Health = 1

Fire = 1

Physical Hazard = 1

• **Other hazards**

• **Results of PBT and vPvB assessment**

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

## 3 Composition/information on ingredients

• **Chemical characterization:** Mixtures

• **Description:** Mixture

• **Hazardous components:**

94-36-0 dibenzoyl peroxide

5-20%

## 4 First-aid measures

• **Description of first aid measures**

• **After inhalation:** Overexposure, remove to fresh air and seek medical attention.

• **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

• **After eye contact:**

Rinse opened eye for 20 minutes under running water. If eye becomes irritated, obtain medical treatment.

• **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>, sand, extinguishing powder. Do not use water.

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Foam

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.

## 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:**

94-36-0 dibenzoyl peroxide

15 mg/m<sup>3</sup>

- **PAC-2:**

94-36-0 dibenzoyl peroxide

1,200 mg/m<sup>3</sup>

- **PAC-3:**

94-36-0 dibenzoyl peroxide

7,000 mg/m<sup>3</sup>

## 7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

Open and handle receptacle with care.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- **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.

- **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

- **Specific end use(s)** No further relevant information available.

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## 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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **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:**  
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **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  
Chloroprene rubber, CR  
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.
- **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

Face protection (face shield)

- **Body protection:** Protective work clothing

## 9 Physical and chemical properties

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

- **General Information**

- **Appearance:**

|                 |                 |
|-----------------|-----------------|
| Form:           | Liquid          |
| Color:          | Black           |
| Odor:           | Characteristic  |
| Odor threshold: | Not determined. |

|           |                 |
|-----------|-----------------|
| pH-value: | Not determined. |
|-----------|-----------------|

- **Change in condition**

|                |               |
|----------------|---------------|
| Melting point: | Undetermined. |
| Boiling point: | Undetermined  |

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|                                                   |                                               |
|---------------------------------------------------|-----------------------------------------------|
| · <b>Flash point:</b>                             | 84 °C (183.2 °F)                              |
| · <b>Flammability (solid, gaseous):</b>           | Not applicable.                               |
| · <b>Decomposition temperature:</b>               | Not determined.                               |
| · <b>Auto igniting:</b>                           | Product is not selfigniting.                  |
| · <b>Danger of explosion:</b>                     | Product does not present an explosion hazard. |
| · <b>Flammable limits:</b>                        |                                               |
| <b>Lower:</b>                                     | Not determined                                |
| <b>Upper:</b>                                     | Not determined                                |
| · <b>Vapor pressure at 20 °C (68 °F):</b>         | <1 hPa (<0.8 mm Hg)                           |
| · <b>Specific gravity at 20 °C (68 °F):</b>       | 1.13 g/cm <sup>3</sup> (9.42985 lbs/gal)      |
| · <b>Relative density</b>                         | Not determined.                               |
| · <b>Vapor density</b>                            | Not determined.                               |
| · <b>Evaporation rate</b>                         | Not determined.                               |
| · <b>Solubility in / Miscibility with Water:</b>  | Insoluble                                     |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                               |
| · <b>Viscosity:</b>                               |                                               |
| <b>Dynamic:</b>                                   | Not determined.                               |
| <b>Kinematic:</b>                                 | Not determined.                               |
| · <b>Other information</b>                        | No further relevant information available.    |

## 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, hot surfaces, ignition sources.  
Direct sunlight
- **Incompatible materials:**  
Reacts with acids.  
Reacts with alkalis (bases)  
Reacts with reducing agents.
- **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritant.
- **on the eye:** Causes serious eye irritation.
- **Sensitization:** Skin Contact - May cause allergic skin reaction.

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- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

94-36-0 dibenzoyl peroxide

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- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

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.

- **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

- **UN-Number**

- **DOT, ADN, IMDG, IATA**

not regulated

- **UN proper shipping name**

- **DOT, ADN, IMDG, IATA**

not regulated

- **Transport hazard class(es)**

- **DOT, ADN, IMDG, IATA**

- **Class**

not regulated

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- |                                                                                  |                 |
|----------------------------------------------------------------------------------|-----------------|
| · <b>Packing group</b>                                                           |                 |
| · <b>DOT, IMDG, IATA</b>                                                         | not regulated   |
| · <b>Environmental hazards:</b>                                                  | Not applicable. |
| · <b>Special precautions for user</b>                                            | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>                                                  | not regulated   |

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

### · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

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

All ingredients are listed.

### · 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:

None of the ingredients is listed.

#### · 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:

None of the ingredients is listed.

#### · (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:

94-36-0 dibenzoyl peroxide

F4, R4

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

All ingredients are listed.

#### · Pennsylvania Special Hazardous Substance List:

94-36-0 dibenzoyl peroxide

E

#### · Cancerogenity categories

#### · EPA (Environmental Protection Agency)

None of the ingredients is listed.

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|                                                           |                    |
|-----------------------------------------------------------|--------------------|
| · <b>TLV (Threshold Limit Value established by ACGIH)</b> |                    |
| 94-36-0                                                   | dibenzoyl peroxide |
| A4                                                        |                    |

|                                                       |  |
|-------------------------------------------------------|--|
| · <b>MAK (German Maximum Workplace Concentration)</b> |  |
| None of the ingredients is listed.                    |  |

|                                                                           |  |
|---------------------------------------------------------------------------|--|
| · <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b> |  |
| None of the ingredients is listed.                                        |  |

- **National regulations:**

- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

- **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:** 04/02/2018

- **Date of preparation / last revision** 04/02/2018 / -

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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)

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. 4: Flammable liquids – Category 4

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

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