



# WELD-ON® 45 Low VOC 2-Component Adhesive

## Safety Data Sheet

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

Issue date: 05/07/2020

Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : WELD-ON® 45 Low VOC 2-Component Adhesive

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Adhesives, sealants  
Restrictions on use : No additional information available

#### 1.3. Supplier

**Manufacturer**  
IPS Corporation  
17109 South Main Street  
Gardena, CA 90248-3127 - USA  
T 310-898-3300  
[www.ipscorp.com](http://www.ipscorp.com)

**Supplier**  
IPS Adhesives  
600 Ellis Road  
Durham, NC 27703 - USA  
T 1-919-598-2400



[chemical-concepts.com](http://chemical-concepts.com)

**800.220.1966**

410 Pike Road • Huntingdon Valley, PA 19006

#### 1.4. Emergency telephone number

Emergency number : CHEMTEL 800-255-3924 / +1 813-248-0585 (International)

### SECTION 2: Hazard(s) identification

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

##### GHS classification

Flammable liquids, Category 2  
Skin corrosion/irritation, Category 2  
Serious eye damage/eye irritation, Category 2A  
Skin sensitisation, Category 1  
Carcinogenicity, Category 2  
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation  
Full text of H statements : see section 16

H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H335 May cause respiratory irritation.

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-US labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Danger

Hazard statements (GHS) :

H225 - Highly flammable liquid and vapour.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.  
H351 - Suspected of causing cancer.

Precautionary statements (GHS) :

P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/bond container and receiving equipment  
P241 - Use explosion-proof electrical/ventilating/lighting equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 - If on skin: Wash with plenty of water.  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

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skin with water/shower.  
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.  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P312 - Call a poison center/doctor if you feel unwell  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P363 - Wash contaminated clothing before reuse.  
P370+P378 - In case of fire: Use media other than water to extinguish.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS\_US)

21.96% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

21.96% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

21.96% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name  | Product identifier     | %         | GHS classification   |
|---|------------------------|-----------|--|
| Methyl methacrylate   | (CAS-No.) 80-62-6      | 30 - 50   | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>STOT SE 3, H335   |
| 2-Propenenitrile, polymer with 1,3-butadiene and ethenylbenzene | (CAS-No.) 9003-56-9    | 10 - 30   | Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>STOT SE 3, H335  |
| DIBENZOYL PEROXIDE  | (CAS-No.) 94-36-0      | 1 - 5     | Org. Perox. B, H241<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317  |
| Acid modified methacrylate                                      | (CAS-No.) trade secret | 0.5 - 1.5 | Eye Dam. 1, H318<br>Skin Sens. 1B, H317  |
| Dimethyl-p-toluidine  | (CAS-No.) 99-97-8      | 0.1 - 0.9 | Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation:dust,mist), H331<br>Carc. 2, H351<br>STOT RE 2, H373<br>Aquatic Chronic 3, H412 |

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

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 : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- First-aid measures after skin contact : Wash skin thoroughly with mild soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

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

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects                    | : Suspected of causing cancer.   |
| Symptoms/effects after inhalation   | : May cause respiratory irritation. In case of over-exposure or in confined areas : Nausea. Dizziness. Headache. Drowsiness. Eye irritation. Irritation of the nasal mucous membranes. |
| Symptoms/effects after skin contact | : Causes skin irritation. May cause an allergic skin reaction. Repeated or prolonged skin contact may cause dermatitis and defatting.  |
| Symptoms/effects after eye contact  | : Causes serious eye irritation.   |
| Symptoms/effects after ingestion    | : Nausea. Vomiting. Diarrhea. Mental confusion.  |

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

|                                |   |
|--------------------------------|---|
| Suitable extinguishing media   | : Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Foam. Halons. Water fog. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.  |

### 5.2. Specific hazards arising from the chemical

|                  |   |
|------------------|---|
| Fire hazard      | : Highly flammable liquid and vapour. Flammable vapours may accumulate in the container. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source. Thermal decomposition may produce : Carbon oxides (CO, CO <sub>2</sub> ), Nitrogen oxides, hydrocarbons, Phosphorus oxides, Acrid, smoke. Burning produces irritating, toxic and noxious fumes. |
| Explosion hazard | : May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.  |
| Reactivity       | : No dangerous reactions known under normal conditions of use.  |

### 5.3. Special protective equipment and precautions for fire-fighters

|                                |  |
|--------------------------------|--|
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.                    |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

|                  |   |
|------------------|---|
| General measures | : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Avoid contact with skin, eyes and clothing. Do not breathe aerosol. Do not breathe vapour. Use personal protective equipment as required. |
|------------------|---|

#### 6.1.1. For non-emergency personnel

|                      |                                   |
|----------------------|-----------------------------------|
| Protective equipment | : Refer to section 8.2.           |
| Emergency procedures | : Evacuate unnecessary personnel. |

#### 6.1.2. For emergency responders

|                      |                         |
|----------------------|-------------------------|
| Protective equipment | : Refer to section 8.2. |
| Emergency procedures | : Ventilate area.       |

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

|                         |  |
|-------------------------|--|
| For containment         | : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.                               |
| Methods for cleaning up | : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Use steel container. |

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                                   |   |
|-----------------------------------|---|
| Additional hazards when processed | : Handle empty containers with care because residual vapours are flammable. |
|-----------------------------------|---|

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Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Use only non-sparking tools. Avoid contact with skin, eyes and clothing. Use only outdoors or in a well-ventilated area. Do not breathe aerosol. Do not breathe vapours. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.

Storage conditions : Keep only in the original container. Keep in fireproof place. Keep container tightly closed.

Incompatible products : Reducing agents. Oxidizing agent. metals.

Storage temperature : 10 – 27 °C

Heat and ignition sources : Keep away from heat, sparks and flame.

Storage area : Store in dry, cool, well-ventilated area. Store in a dark area.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Methyl methacrylate (80-62-6) |                                      |  |
|-------------------------------|--------------------------------------|--|
| ACGIH                         | Local name                           | Methyl methacrylate  |
| ACGIH                         | ACGIH TWA (mg/m <sup>3</sup> )       | 205 mg/m <sup>3</sup>  |
| ACGIH                         | ACGIH TWA (ppm)                      | 50 ppm   |
| ACGIH                         | ACGIH STEL (mg/m <sup>3</sup> )      | 410 mg/m <sup>3</sup>  |
| ACGIH                         | ACGIH STEL (ppm)                     | 100 ppm  |
| ACGIH                         | Remark (ACGIH)                       | TLV® Basis: URT & eye irr; body weight eff; pulm edema. Notations: DSEN; A4 (Not classifiable as a Human Carcinogen) |
| ACGIH                         | Regulatory reference                 | ACGIH 2020   |
| OSHA                          | OSHA PEL (TWA) (mg/m <sup>3</sup> )  | 410 mg/m <sup>3</sup>  |
| OSHA                          | OSHA PEL (TWA) (ppm)                 | 100 ppm  |
| OSHA                          | Regulatory reference (US-OSHA)       | OSHA Annotated Table Z-1   |
| NIOSH                         | NIOSH REL (TWA) (mg/m <sup>3</sup> ) | 410 mg/m <sup>3</sup>  |
| NIOSH                         | NIOSH REL (TWA) (ppm)                | 100 ppm  |

### 2-Propenenitrile, polymer with 1,3-butadiene and ethenylbenzene (9003-56-9)

Not applicable

### Acid modified methacrylate (trade secret)

Not applicable

### Dimethyl-p-toluidine (99-97-8)

Not applicable

### DIBENZOYL PEROXIDE (94-36-0)

|       |                                      |  |
|-------|--------------------------------------|--|
| ACGIH | Local name                           | Benzoyl peroxide   |
| ACGIH | ACGIH TWA (mg/m <sup>3</sup> )       | 5 mg/m <sup>3</sup>  |
| ACGIH | Remark (ACGIH)                       | TLV® Basis: URT & skin irr. Notations: A4 (Not classifiable as a Human Carcinogen) |
| ACGIH | Regulatory reference                 | ACGIH 2020   |
| OSHA  | OSHA PEL (TWA) (mg/m <sup>3</sup> )  | 5 mg/m <sup>3</sup>  |
| OSHA  | Regulatory reference (US-OSHA)       | OSHA Annotated Table Z-1   |
| NIOSH | NIOSH REL (TWA) (mg/m <sup>3</sup> ) | 5 mg/m <sup>3</sup>  |

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### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Avoid creating mist or spray. Avoid splashing. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station. Provide local exhaust or general room ventilation.
- Environmental exposure controls : Prevent leakage or spillage.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear suitable gloves resistant to chemical penetration. Butyl rubber gloves

#### Eye protection:

Chemical goggles. If there is a risk of liquid being splashed : face shield

#### Skin and body protection:

Wear suitable protective clothing. Impervious clothing

#### Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Approved organic vapour respirator. Appropriate dust or mist respirator should be used if airborne particles are generated when handling this material. In confined space use self-contained breathing apparatus

#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : A: Viscous. B: Clear.
- Colour : A: tan B: colourless
- Odour : mild Acrid
- Odour 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 (butylacetate=1) : No data available
- Flammability (solid, gas) : Highly flammable liquid and vapour.
- Vapour pressure : No data available
- Relative vapour density at 20 °C : No data available
- Relative density : No data available
- Solubility : No data available
- 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
- Explosive limits : No data available
- Explosive properties : No data available
- Oxidising properties : No data available

### 9.2. Other information

- VOC content : ≤ 50 g/l

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous Polymerization may occur.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

#### 10.5. Incompatible materials

Reducing agents. Oxidizing agent. Metals.

#### 10.6. Hazardous decomposition products

None under normal use.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

|                                 |  |
|---------------------------------|--|
| Unknown acute toxicity (GHS_US) | 21.96% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)<br>21.96% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)<br>21.96% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist)) |
|---------------------------------|--|

| <b>Methyl methacrylate (80-62-6)</b> |                       |
|--------------------------------------|-----------------------|
| LD50 oral rat                        | 7900 – 9400 mg/kg     |
| LD50 dermal rabbit                   | > 5000 mg/kg          |
| ATE (oral)                           | 7900 mg/kg bodyweight |
| ATE (dust,mist)                      | 29.8 mg/l/4h          |

| <b>Dimethyl-p-toluidine (99-97-8)</b> |                      |
|---------------------------------------|----------------------|
| ATE (oral)                            | 100 mg/kg bodyweight |
| ATE (dermal)                          | 300 mg/kg bodyweight |
| ATE (dust,mist)                       | 0.5 mg/l/4h          |

| <b>DIBENZOYL PEROXIDE (94-36-0)</b> |                         |
|-------------------------------------|-------------------------|
| LD50 oral rat                       | > 5000 mg/kg bodyweight |

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitisation : May cause an allergic skin reaction.  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Suspected of causing cancer.

| <b>Methyl methacrylate (80-62-6)</b> |                      |
|--------------------------------------|----------------------|
| IARC group                           | 3 - Not classifiable |

| <b>Dimethyl-p-toluidine (99-97-8)</b> |                                      |
|---------------------------------------|--------------------------------------|
| IARC group                            | 2B - Possibly carcinogenic to humans |

| <b>DIBENZOYL PEROXIDE (94-36-0)</b> |                      |
|-------------------------------------|----------------------|
| IARC group                          | 3 - Not classifiable |

Reproductive toxicity : Not classified  
STOT-single exposure : May cause respiratory irritation.

| <b>Methyl methacrylate (80-62-6)</b> |                                   |
|--------------------------------------|-----------------------------------|
| STOT-single exposure                 | May cause respiratory irritation. |

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### 2-Propenenitrile, polymer with 1,3-butadiene and ethenylbenzene (9003-56-9)

|                      |                                   |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
|----------------------|-----------------------------------|

STOT-repeated exposure : Not classified

### Dimethyl-p-toluidine (99-97-8)

|                        |  |
|------------------------|--|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
|------------------------|--|

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Likely routes of exposure : Inhalation. Skin and eye contact.

Symptoms/effects : Suspected of causing cancer.

Symptoms/effects after inhalation : May cause respiratory irritation. In case of over-exposure or in confined areas : Nausea. Dizziness. Headache. Drowsiness. Eye irritation. Irritation of the nasal mucous membranes.

Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction. Repeated or prolonged skin contact may cause dermatitis and defatting.

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

Symptoms/effects after ingestion : Nausea. Vomiting. Diarrhea. Mental confusion.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Methyl methacrylate (80-62-6)

|             |                |
|-------------|----------------|
| LC50 fish 1 | > 79 mg/l 96 h |
|-------------|----------------|

|                |              |
|----------------|--------------|
| EC50 crustacea | 69 mg/l 48 h |
|----------------|--------------|

### 12.2. Persistence and degradability

#### WELD-ON® 45 Low VOC 2-Component Adhesive

|                               |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

#### Methyl methacrylate (80-62-6)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
|-------------------------------|------------------------|

|                 |             |
|-----------------|-------------|
| BOD (% of ThOD) | 94.3 % ThOD |
|-----------------|-------------|

### 12.3. Bioaccumulative potential

#### WELD-ON® 45 Low VOC 2-Component Adhesive

|                           |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

#### Methyl methacrylate (80-62-6)

|         |      |
|---------|------|
| Log Pow | 1.38 |
|---------|------|

### 12.4. Mobility in soil

#### WELD-ON® 45 Low VOC 2-Component Adhesive

|                |                  |
|----------------|------------------|
| Ecology - soil | Not established. |
|----------------|------------------|

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Avoid release to the environment.

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### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

|                                  |   |
|----------------------------------|---|
| Transport document description   | : UN1133 ADHESIVES, 3, II                                       |
| UN-No.(DOT)                      | : UN1133  |
| Proper Shipping Name (DOT)       | : ADHESIVES   |
| Transport hazard class(es) (DOT) | : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 |
| Packing group (DOT)              | : II - Medium Danger  |
| Hazard labels (DOT)              | : 3 - Flammable liquid  |



|  |  |
|--|--|
| DOT Packaging Non Bulk (49 CFR 173.xxx)                          | : 173  |
| DOT Packaging Bulk (49 CFR 173.xxx)                              | : 242  |
| DOT Special Provisions (49 CFR 172.102)                          | : 149 - When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in 173.150(b)(2) of this subchapter for inner packagings may be increased to 5 L (1.3 gallons).<br>383 - Packages containing toy plastic or paper caps for toy pistols described as "UN0349, Articles, explosive, n.o.s. (Toy caps), 1.4S" or "NA0337, Toy caps, 1.4S" are not subject to the subpart E (labeling) requirements of this part when offered for transportation by motor vehicle, rail freight, cargo vessel, and cargo aircraft and, notwithstanding the packing method assigned in §173.62 of this subchapter, in conformance with the following conditions:<br>B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.<br>IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.<br>T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)<br>TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / (1 + a (tr - tf))$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.<br>TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F). |
| DOT Packaging Exceptions (49 CFR 173.xxx)                        | : 150  |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 5 L  |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)     | : 60 L   |
| DOT Vessel Stowage Location                                      | : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.  |
| Emergency Response Guide (ERG) Number                            | : 128  |
| Other information  | : No supplementary information available.  |

#### Transport by sea

|                                       |  |
|---------------------------------------|--|
| Transport document description (IMDG) | : UN 1133 ADHESIVES, 3, II                 |
| UN-No. (IMDG)                         | : 1133                                     |
| Proper Shipping Name (IMDG)           | : ADHESIVES                                |
| Class (IMDG)                          | : 3 - Flammable liquids                    |
| Packing group (IMDG)                  | : II - substances presenting medium danger |
| Limited quantities (IMDG)             | : 5 L                                      |

#### Air transport

|                                       |                            |
|---------------------------------------|----------------------------|
| Transport document description (IATA) | : UN 1133 ADHESIVES, 3, II |
|---------------------------------------|----------------------------|



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|                             |                         |
|-----------------------------|-------------------------|
| UN-No. (IATA)               | : 1133                  |
| Proper Shipping Name (IATA) | : ADHESIVES             |
| Class (IATA)                | : 3 - Flammable Liquids |
| Packing group (IATA)        | : II - Medium Danger    |

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

##### Methyl methacrylate (80-62-6)

Subject to reporting requirements of United States SARA Section 313

|                          |  |
|--------------------------|--|
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a final TSCA section 4 test rule. |
| CERCLA RQ                | 1000 lb  |

##### 2-Propenenitrile, polymer with 1,3-butadiene and ethenylbenzene (9003-56-9)

|                          |   |
|--------------------------|---|
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711). |
|--------------------------|---|

##### DIBENZOYL PEROXIDE (94-36-0)

Subject to reporting requirements of United States SARA Section 313

#### 15.2. International regulations

##### CANADA

##### Methyl methacrylate (80-62-6)

Listed on the Canadian DSL (Domestic Substances List) inventory.

##### 2-Propenenitrile, polymer with 1,3-butadiene and ethenylbenzene (9003-56-9)

Listed on the Canadian DSL (Domestic Substances List) inventory.

##### Acid modified methacrylate (trade secret)

Listed on the Canadian DSL (Domestic Substances List) inventory.

##### Dimethyl-p-toluidine (99-97-8)

Listed on the Canadian DSL (Domestic Substances List) inventory.

##### DIBENZOYL PEROXIDE (94-36-0)

Listed on the Canadian DSL (Domestic Substances List) inventory.

##### EU-Regulations

##### Methyl methacrylate (80-62-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

##### DIBENZOYL PEROXIDE (94-36-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

##### National regulations

##### Methyl methacrylate (80-62-6)

Listed on the Chinese Catalog of Hazardous Chemicals.  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on KECI (Korean Existing Chemicals Inventory)

##### Acid modified methacrylate (trade secret)

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on Taiwan National Chemical Inventory

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### Dimethyl-p-toluidine (99-97-8)

Listed on IARC (International Agency for Research on Cancer)

### DIBENZOYL PEROXIDE (94-36-0)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on the Korea Designated Existing Substances List (First Batch).  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Chinese Catalog of Hazardous Chemicals.  
China List of Hazardous Chemicals for Priority Management- SAWS  
Not listed on Taiwan National Chemical Inventory.

### 15.3. US State regulations

**⚠ WARNING:** This product can expose you to Styrene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

| Component                                  | Carcinogenicity | Developmental toxicity | Reproductive toxicity male | Reproductive toxicity female | No significant risk level (NSRL) | Maximum allowable dose level (MADL) |
|--|-----------------|------------------------|----------------------------|------------------------------|----------------------------------|-------------------------------------|
| Styrene(100-42-5)                          | X               |                        |                            |                              | 27 µg/day                        |                                     |
| Acrylonitrile(107-13-1)                    | X               |                        |                            |                              | 0.7 µg/day                       |                                     |
| Dimethyl-p-toluidine(99-97-8)              | X               |                        |                            |                              |                                  |                                     |
| Silicon dioxide (cristobalite)(14808-60-7) | X               |                        |                            |                              |                                  |                                     |

| Component                    | State or local regulations  |
|------------------------------|---|
| Methyl methacrylate(80-62-6) | U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances; U.S. - Pennsylvania - RTK (Right to Know) List |
| DIBENZOYL PEROXIDE(94-36-0)  | U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List                                       |

## SECTION 16: Other information

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

Data sources

: National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. ACGIH (American Conference of Government Industrial Hygienists). European Standards: Personal Protective Equipment; accessed at: [http://ec.europa.eu/enterprise/policies/european-standards/harmonised-standards/personal-protective-equipment/index\\_en.htm](http://ec.europa.eu/enterprise/policies/european-standards/harmonised-standards/personal-protective-equipment/index_en.htm). OSHA 29CFR 1910.1200 Hazard Communication Standard. Chemical Inspection & Regulation Service; accessed at: [http://www.cirs-reach.com/Inventory/Global\\_Chemical\\_Inventories.html](http://www.cirs-reach.com/Inventory/Global_Chemical_Inventories.html). Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. European Chemicals Agency (ECHA) Registered Substances list. Accessed at <http://echa.europa.eu/>. Manufacturer Information. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>. TSCA Chemical Substance Inventory. Accessed at <http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html>. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No

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1907/2006.

Other information

: None.

Full text of H-statements:

|      |  |
|------|--|
| H225 | Highly flammable liquid and vapour.                                |
| H241 | Heating may cause a fire or explosion.                             |
| H301 | Toxic if swallowed.  |
| H311 | Toxic in contact with skin.  |
| H315 | Causes skin irritation.  |
| H317 | May cause an allergic skin reaction.                               |
| H318 | Causes serious eye damage.   |
| H319 | Causes serious eye irritation.                                     |
| H331 | Toxic if inhaled.  |
| H335 | May cause respiratory irritation.                                  |
| H351 | Suspected of causing cancer.                                       |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects.                 |

Abbreviations and acronyms:

|      |   |
|------|---|
|      | ACGIH (American Conference of Government Industrial Hygienists)               |
|      | ATE: Acute Toxicity Estimate  |
|      | CAS (Chemical Abstracts Service) number                                       |
|      | CLP: Classification, Labelling, Packaging.                                    |
|      | GHS: Globally Harmonized System (of Classification and Labeling of Chemicals) |
|      | LD50: Lethal Dose for 50% of the test population                              |
| LC50 | Median lethal concentration   |
|      | TWA: Time Weighted Average  |
|      | STEL: Short Term Exposure Limits  |
| VOC  | Volatile Organic Compounds  |

NFPA health hazard

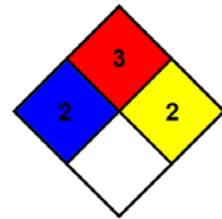
: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard

: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.

NFPA reactivity

: 2 - Materials that readily undergo violent chemical change at elevated temperatures and pressures.



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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*



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