**Safety Data Sheet**

Partite 7315 Methacrylate Adhesive Resin

according to Regulation (EC) No 1907/2006

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**Partite 7315 Methacrylate Adhesive Resin**

Print date: 30.03.2015  
Product code: 7315R  
Page 1 of 12

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

1.1. **Product identifier**

Partite 7315 Methacrylate Adhesive Resin

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

**Use of the substance/mixture**

Adhesives, sealants

**Uses advised against**

any non-intended use.

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

- **Company name:** Parson Adhesives, Inc.
- **Place:** Rochester, MI 48309
- **Telephone:** +1 248-299-5585
- **Internet:** www.parsonadhesives.com
- **Responsible Department:** sales@parsonadhesives.com
- **Chemtrec:** 1-800-262-8200

1.4. **Emergency telephone number:**

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**SECTION 2: Hazards identification**

2.1. **Classification according to the substance or mixture**

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

- Indications of danger: F - Highly flammable, Xi - Irritant
- R phrases:
  - Highly flammable.
  - Irritating to eyes, respiratory system and skin.
  - May cause sensitisation by skin contact.

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

- Hazard categories:
  - Flammable liquid: Flam. Liq. 2
  - Skin corrosion/irritation: Skin Irrit. 2
  - Serious eye damage/eye irritation: Eye Dam. 1
  - Respiratory/skin sensitization: Skin Sens. 1
- Specific target organ toxicity - single exposure: STOT SE 3
- Specific target organ toxicity - repeated exposure: STOT RE 2
- Hazard Statements:
  - Highly flammable liquid and vapour.
  - Causes skin irritation.
  - May cause an allergic skin reaction.
  - Causes serious eye damage.
  - May cause respiratory irritation.
  - May cause damage to organs through prolonged or repeated exposure.

2.2. **Label elements**

**Hazardous components which must be listed on the label**

- methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate
- Chlorosulfonated Polyethylene
- 2-methylpropenoic acid, methacrylic acid

- **Signal word:** Danger
- **Pictograms:** GHS02-GHS05-GHS07-GHS08

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**Revision No:** 1.00  
**GB - EN**  
**Revision date:** 19.03.2015
**Hazard statements**

- **H225**: Highly flammable liquid and vapour.
- **H315**: Causes skin irritation.
- **H317**: May cause an allergic skin reaction.
- **H318**: Causes serious eye damage.
- **H335**: May cause respiratory irritation.
- **H373**: May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

- **P210**: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- **P260**: Do not breathe dust/fume/gas/mist/vapours/spray.
- **P280**: Wear protective gloves/protective clothing/eye protection/face protection.
- **P305+P351+P338**: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **P310**: Immediately call a POISON CENTER/doctor.
- **P312**: Call a POISON CENTER/doctor if you feel unwell.
- **P333+P313**: If skin irritation or rash occurs: Get medical advice/attention.
- **P501**: Dispose of contents/container to in accordance with official regulations.

**2.3. Other hazards**

In use, may form flammable/explosive vapour-air mixture.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

<table>
<thead>
<tr>
<th>EC No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>201-297-1</td>
<td>methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate</td>
<td>45 - 65 %</td>
</tr>
<tr>
<td>80-62-6</td>
<td>F - Highly flammable, Xi - Irritant</td>
<td>R11-37/38-43</td>
</tr>
<tr>
<td>607-035-00-6</td>
<td>Flam. Liq. 2, STOT SE 3, Skin Irrit. 2, Skin Sens. 1; H225 H335 H315 H317</td>
<td></td>
</tr>
<tr>
<td>68037-39-8</td>
<td>Xn - Harmful</td>
<td>R48</td>
</tr>
<tr>
<td>201-204-4</td>
<td>2-methylpropenoic acid, methacrylic acid</td>
<td>1 - 3 %</td>
</tr>
<tr>
<td>79-41-4</td>
<td>C - Corrosive, Xn - Harmful</td>
<td>R21/22-35</td>
</tr>
<tr>
<td>607-088-00-5</td>
<td>Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A; H312 H302 H314</td>
<td></td>
</tr>
</tbody>
</table>

Full text of R-, H- and EUH-phrases: see section 16.

**Further Information**

Product does not contain listed SVHC substances.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**
General information
In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

After inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of irregular breathing or respiratory arrest provide artificial respiration. In case of irritation of the respiratory tract seek medical advice.
In the case of lung irritation: Primary treatment using corticoide spray, eg. Auxiloson spray, Pulmicort-dosage-spray. (Auxiloson and Pulmicort are registered trademarks).

After contact with skin
Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

After contact with eyes
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

After ingestion
Do not induce vomiting. Rinse mouth thoroughly with water. Let water be swallowed in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps. In all cases of doubt, or when symptoms persist, seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed
No information available.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media

Unsuitable extinguishing media
High power water jet.

5.2. Special hazards arising from the substance or mixture
Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2).

5.3. Advice for firefighters
Wear a self-contained breathing apparatus and chemical resistant suit. In case of fire and/or explosion do not breathe fumes.

Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray/stream to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Guide people to safety. Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/vapour/spray. Avoid contact with skin, eye and clothing. Wear personal protection equipment. (refer to chapter 8)

6.2. Environmental precautions
Do not empty into drains or the aquatic environment. Prevent spreading over great surfaces (e.g. by damming or installing oil booms). In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

6.3. Methods and material for containment and cleaning up
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Ventilate affected area.
Treat the assimilated material according to the section on waste disposal.
Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

refer to chapter 8.
refer to chapter 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling
Provide adequate ventilation.
Wear suitable protective clothing. (Refer to chapter 8.)

Advice on protection against fire and explosion
Avoid sources of ignition - No smoking. Take precautionary measures against static discharge. In use, may form flammable/explosive vapour-air mixture. It is possible that in the head space of sealed containers, especially in the case of thermal development, vapours of solvent cleaners may accumulate. Flames and sources of ignition must be kept well away. Heating causes rise in pressure with risk of bursting.

Further information on handling
Do not breathe gas/vapour/spray. Avoid contact with skin, eye and clothing.
General protection and hygiene measures: refer to chapter 8

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Keep container tightly closed in a cool, well-ventilated place. Keep container dry.
Ensure adequate ventilation of the storage area.
Make sure spills can be contained (e.g. sump pallets or kerbed areas).

Advice on storage compatibility

Further information on storage conditions
Protect against: Light. UV-radiation/sunlight. heat. cooling. moisture.

7.3. Specific end use(s)

refer to chapter 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fibres/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>79-41-4</td>
<td>Methacrylic acid</td>
<td>20</td>
<td>72</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>40</td>
<td>143</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
<tr>
<td>80-62-6</td>
<td>Methyl methacrylate</td>
<td>50</td>
<td>208</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100</td>
<td>416</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
</tbody>
</table>

8.2. Exposure controls
Appropriate engineering controls

In case of open handling, use devices with built-in suction where possible. If suction of the immediate vicinity is impossible or insufficient, adequate airing of the working place must be ensured.

Protective and hygiene measures

Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Remove contaminated clothing immediately and dispose off safely. Wash contaminated clothing prior to re-use. Used working clothes should not be used outside the work area. Street clothing should be stored separately from work clothing. Protect skin by using skin protective cream.

Eye/face protection

Suitable eye protection: Tightly sealed safety glasses. DIN EN 166

Hand protection

Pull-over gloves of rubber. DIN EN 374
Suitable material:
(Breakthrough time >= 480 min, penetration time (maximum wearing period): 160 min)
CR (polychloroprenes, Chloroprene rubber). (0,5 mm)
FKM (fluororubber). (0,4 mm)
Butyl rubber. (0,5 mm)
Before using check leak tightness / impermeability. In case of reutilization, clean gloves before taking off and store in well-aired place.
In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Skin protection

Suitable protection of the body: Protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.
Respiratory protection required in case of:
insufficient ventilation.
exceeding critical value
Generation/formation of aerosols
Generation/formation of mist
Suitable respiratory protective equipment: Combination filter device (DIN EN 141). Type : A / P2/P3
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!

Environmental exposure controls

Do not empty into drains or the aquatic environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: viscos
Colour: Off-White
Odour: characteristic

pH-Value: not determined

Test method

Changes in the physical state
Partite 7315 Methacrylate Adhesive Resin

Melting point: not determined
Initial boiling point and boiling range: Methyl-methacrylate: 100 °C
Flash point: Methyl-methacrylate: 10 °C

Explosive properties
none/none

Lower explosion limits: not determined
Upper explosion limits: not determined

Oxidizing properties
none/none

Vapour pressure: not determined
Density: not determined
Viscosity / dynamic: not determined

9.2. Other information
No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity
No information available.

10.2. Chemical stability
Stable under normal storage and handling conditions.

10.3. Possibility of hazardous reactions
No information available.

10.4. Conditions to avoid
Protect against: Light. UV-radiation/sunlight. heat. cooling. moisture. In use may form flammable/explosive vapour-air mixture.

10.5. Incompatible materials
Materials to avoid: Strong acid. Oxidizing agents, strong. Alkalis (alkalis), concentrated.

10.6. Hazardous decomposition products
Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Toxicocinetics, metabolism and distribution
No information available.

Acute toxicity
Based on available data, the classification criteria are not met.
Irritation and corrosivity

Causes skin irritation.
Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate)
Product is: sensitizing.
People who suffer from skins problems, asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes, which use this substance.

STOT-single exposure

May cause respiratory irritation. (methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate)

Severe effects after repeated or prolonged exposure

May cause damage to organs through prolonged or repeated exposure. (Chlorosulfonated Polyethylene)
methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate (CAS-No.: 80-62-6):
Chronic oral toxicity (Rat., 104 weeks): NOAEL = >2000 mg/kg(bw)/day
Chronic inhalative toxicity (Rat., OECD 453, 104 weeks): NOEL = 500 ppm
Literature information: ECHA Dossier

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.
methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate (CAS-No.: 80-62-6):
Carcinogenicity: NOAEC = >2,05 mg/l (Rat. OECD 451, 102 weeks)
Reproductive toxicity: NOAEL = 400 mg/kg(bw)/day (Rat. OECD 416)
Developmental toxicity/teratogenicity: NOAEC = >8,3 mg/l (Rat. OECD 414)
Literature information: ECHA Dossier

2-methylpropenoic acid, methacrylic acid (CAS-No.: 79-41-4):
No experimental indications of mutagenicity in-vitro exist.
Reproductive toxicity: NOAEL = 400 mg/kg(bw)/day (Rat. OECD 416)
Developmental toxicity/teratogenicity: NOAEC = 350 ppm (Rat. OECD 413, 90d)
Literature information: ECHA Dossier

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No information available.

SECTION 12: Ecological information

12.1. Toxicity
### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Method</th>
<th>Value</th>
<th>d</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>80-62-6</td>
<td>methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate</td>
<td>OECD 301C / ISO 9408 / EWG 92/69 Anhang V, C.4-F</td>
<td>94 %</td>
<td>14</td>
<td>ECHA Dossier</td>
</tr>
<tr>
<td></td>
<td>Easy biodegradable (concerning to the criteria of the OECD)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>79-41-4</td>
<td>2-methylpropenoic acid, methacrylic acid</td>
<td>OECD 301D / EWG 92/69 Anhang V, C.4-E</td>
<td>86 %</td>
<td>28</td>
<td>ECHA Dossier</td>
</tr>
<tr>
<td></td>
<td>Easy biodegradable (concerning to the criteria of the OECD)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 12.3. Bioaccumulative potential

**Partition coefficient n-octanol/water**

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>80-62-6</td>
<td>methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate</td>
<td>1,32</td>
</tr>
<tr>
<td>79-41-4</td>
<td>2-methylpropenoic acid, methacrylic acid</td>
<td>0,93</td>
</tr>
</tbody>
</table>

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

### 12.6. Other adverse effects

No data available

**Further information**

Do not empty into drains or the aquatic environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Advice on disposal**

Waste disposal according to official state regulations. Consult the local waste disposal expert about waste disposal. Cleaned containers may be recycled.

Control report for waste code/ waste marking according to EAKV:
Partite 7315 Methacrylate Adhesive Resin

Waste disposal number of waste from residues/unused products

080409  WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKs; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances
Classified as hazardous waste.

Waste disposal number of used product

080409  WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110  WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances
Classified as hazardous waste.

Contaminated packaging
Handle contaminated packaging in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:  UN 1133
14.2. UN proper shipping name:  Adhesives
14.3. Transport hazard class(es):  3
14.4. Packing group:
    Hazard label:  3
    Classification code:  F1
    Special Provisions:  640D
    Limited quantity:  5 L
    Exempted quantity:  E0
    Transport category:  2
    Hazard No:  33
    Tunnel restriction code:  D/E

Inland waterways transport (ADN)

14.1. UN number:  UN 1133
14.2. UN proper shipping name:  Adhesives
14.3. Transport hazard class(es):  3
14.4. Packing group:
    Hazard label:  3
    Classification code:  F1
    Special Provisions:  640D
Partite 7315 Methacrylate Adhesive Resin

Limited quantity: 5 L
Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number: UN 1133
14.2. UN proper shipping name: Adhesives
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3

Marine pollutant: NO
Special Provisions: -
Limited quantity: 5 L
Excepted quantity: E2
EmS: F-E, S-D

Air transport (ICAO)

14.1. UN number: UN 1133
14.2. UN proper shipping name: Adhesives
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3

Special Provisions: A3
Limited quantity Passenger: 1 L
Passenger LQ: Y341
Excepted quantity: E2
IATA-packing instructions - Passenger: 353
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

14.5. Environmental hazards
ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user
refer to chapter 6-8

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
irrelevant

SECTION 15: Regulatory information

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

EU regulatory information

Additional information
The preparation is dangerous in the sense of Directive 1999/45/EC.
This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].
Regulation 96/82/EC for danger control following severe accidents with dangerous substances:
National regulatory information

Employment restrictions: Observe employment restrictions for young people.
Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Rev. 1.00, 19.03.2015, Initial release

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)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LD50: Lethal dose, 50 percent
LC50: Lethal concentration, 50 percent
NOAEL: No observed adverse effect level

Relevant R-phrases (Number and full text)
11 Highly flammable.
21/22 Harmful in contact with skin and if swallowed.
35 Causes severe burns.
37/38 Irritating to respiratory system and skin.
43 May cause sensitisation by skin contact.
48 Danger of serious damage to health by prolonged exposure.

Relevant H- and EUH-phrases (Number and full text)

H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H373 May cause damage to organs (Liver.) through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other...
products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)
### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Partite 7315 Methacrylate Adhesive Activator

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

**Use of the substance/mixture**
- Adhesives, sealants

**Uses advised against**
- any non-intended use.

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

- **Company name:** Parson Adhesives, Inc.
- **Place:** Rochester, MI 48309
- **Telephone:** +1 248-299-5585
- **Internet:** www.parsonadhesives.com
- **Responsible Department:** sales@parsonadhesives.com

#### 1.4. Emergency telephone number

Chemtrec: 1-800-262-8200

### SECTION 2: Hazards identification

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

**Indications of danger:** F - Highly flammable, Xi - Irritant

**R phrases:**
- Highly flammable.
- Irritating to respiratory system and skin.
- May cause sensitisation by skin contact.

#### 2.2. Label elements

**Hazardous components which must be listed on the label**
- methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate
- 3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine

**Signal word:** Danger

**Pictograms:** GHS02-GHS07

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**Revision No:** 1.00  **GB - EN**  **Revision date:** 19.03.2015
Hazard statements

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.

Precautionary statements

P210  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261  Avoid breathing dust/fume/gas/mist/vapours/spray.
P280  Wear protective gloves/protective clothing/eye protection/face protection.
P312  Call a POISON CENTER/doctor if you feel unwell.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501  Dispose of contents/container to in accordance with official regulations.

2.3. Other hazards
In use, may form flammable/explosive vapour-air mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>EC No</th>
<th>CAS No</th>
<th>Classification according to Directive 67/548/EEC</th>
<th>Index No</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
<th>REACH No</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>201-297-1</td>
<td>methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate</td>
<td>65 - 85 %</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>201-297-1</td>
<td>607-035-00-6</td>
<td>Flam. Liq. 2, STOT SE 3, Skin Irrit. 2, Skin Sens. 1; H225 H335 H315 H317</td>
<td>80-62-6</td>
<td>F - Highly flammable, Xi - Irritant R11-37/38-43</td>
<td></td>
<td></td>
</tr>
<tr>
<td>607-035-00-6</td>
<td>34562-31-7</td>
<td>Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H302 H312 H315 H319 H335</td>
<td>352-091-3</td>
<td>3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine</td>
<td></td>
<td>10 - 15 %</td>
</tr>
</tbody>
</table>

Full text of R-, H- and EUH-phrases: see section 16.

Further Information
Product does not contain listed SVHC substances.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

After inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of irregular
breathing or respiratory arrest provide artificial respiration. In case of irritation of the respiratory tract seek medical advice.

In the case of lung irritation: Primary treatment using corticoide spray, eg. Auxiloson spray, Pulmicort-dosage-spray. (Auxiloson and Pulmicort are registered trademarks).

**After contact with skin**
Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

**After contact with eyes**
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**After ingestion**
Do not induce vomiting. Rinse mouth thoroughly with water. Let water be swallowed in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps. In all cases of doubt, or when symptoms persist, seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed
No information available.

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

**SECTION 5: Firefighting measures**

5.1. Extinguishing media

**Suitable extinguishing media**

**Unsuitable extinguishing media**
High power water jet.

5.2. Special hazards arising from the substance or mixture
Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2).

5.3. Advice for firefighters
Wear a self-contained breathing apparatus and chemical resistant suit. In case of fire and/or explosion do not breathe fumes.

**Additional information**
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray/stream to protect personnel and to cool endangered containers.

**SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures
Guide people to safety. Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/vapour/spray. Avoid contact with skin, eye and clothing. Wear personal protection equipment. (refer to chapter 8)

6.2. Environmental precautions
Do not empty into drains or the aquatic environment. Prevent spreading over great surfaces (e.g. by damming or installing oil booms). In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

6.3. Methods and material for containment and cleaning up
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Ventilate affected area. Treat the assimilated material according to the section on waste disposal. Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections
refer to chapter 8.
SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling
Provide adequate ventilation.
Wear suitable protective clothing. (Refer to chapter 8.)

Advice on protection against fire and explosion
Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. In use, may form flammable/explosive vapour-air mixture. It is possible that in the head space of sealed containers, especially in the case of thermal development, vapours of solvent cleaners may accumulate. Flames and sources of ignition must be kept well away. Heating causes rise in pressure with risk of bursting.

Further information on handling
Do not breathe gas/vapour/spray. Avoid contact with skin, eye and clothing.
General protection and hygiene measures: refer to chapter 8

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Keep container tightly closed in a cool, well-ventilated place. Keep container dry.
Ensure adequate ventilation of the storage area.
Make sure spills can be contained (e.g. sump pallets or kerbed areas).

Advice on storage compatibility

Further information on storage conditions
Protect against: Light. UV-radiation/sunlight. heat. cooling. moisture.

7.3. Specific end use(s)
refer to chapter 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fibres/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>80-62-6</td>
<td>Methyl methacrylate</td>
<td>50</td>
<td>208</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100</td>
<td>416</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls
In case of open handling, use devices with built-in suction where possible. If suction of the immediate vicinity is impossible or insufficient, adequate airing of the working place must be ensured.
Protective and hygiene measures
Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Remove contaminated clothing immediately and dispose off safely. Wash contaminated clothing prior to re-use. Used working clothes should not be used outside the work area. Street clothing should be stored separately from work clothing. Protect skin by using skin protective cream.

Eye/face protection
Suitable eye protection: Tightly sealed safety glasses. DIN EN 166

Hand protection
Pull-over gloves of rubber. DIN EN 374
Suitable material:
(Breakthrough time >= 480 min, penetration time (maximum wearing period): 160 min)
CR (polychloroprenes, Chloroprene rubber). (0,5 mm)
FKM (fluororubber). (0,4 mm)
Butyl rubber. (0,5 mm)
Before using check leak tightness / impermeability. In case of reutilization, clean gloves before taking off and store in well- aired place.
In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Skin protection
Suitable protection of the body: Protective clothing.

Respiratory protection
With correct and proper use, and under normal conditions, breathing protection is not required.
Respiratory protection required in case of:
insufficient ventilation.
exceeding critical value
Generation/formation of aerosols
Generation/formation of mist
Suitable respiratory protective equipment: Combination filter device (DIN EN 141). Type : A / P2/P3
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!

Environmental exposure controls
Do not empty into drains or the aquatic environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Physical state: viscous
Colour: Off-White / Black
Odour: characteristic

Test method
pH-Value: not determined

Changes in the physical state
Melting point: not determined
Initial boiling point and boiling range: Methyl-methacrylate: 100 °C
Flash point: Methyl-methacrylate: 10 °C

Explosive properties
none

Lower explosion limits: not determined
Partite 7315 Methacrylate Adhesive Activator

Upper explosion limits: not determined

Oxidizing properties none/none

Vapour pressure: not determined

Density: not determined

Viscosity / dynamic: not determined

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under normal storage and handling conditions.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Protect against: Light. UV-radiation/sunlight. heat. cooling. moisture.
In use may form flammable/explosive vapour-air mixture.

10.5. Incompatible materials

Materials to avoid: Strong acid. Oxidizing agents, strong. Alkalis (alkalis), concentrated.

10.6. Hazardous decomposition products

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

Based on available data, the classification criteria are not met.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure routes</th>
<th>Method</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>80-62-6</td>
<td>methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate</td>
<td>dermal</td>
<td>LD50</td>
<td>&gt; 5000 mg/kg</td>
<td>Rabbit.</td>
<td>ECHA Dossier</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative aerosol</td>
<td>LC50</td>
<td>29.8 mg/l</td>
<td>Rat.</td>
<td>ECHA Dossier</td>
</tr>
<tr>
<td>34562-31-7</td>
<td>3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine</td>
<td>oral</td>
<td>ATE</td>
<td>500 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>ATE</td>
<td>1100 mg/kg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Irritation and corrosivity

Causes skin irritation.
Causes serious eye irritation.

Sensitising effects
May cause an allergic skin reaction. (methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate)
Product is: sensitizing.
People who suffer from skin problems, asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes, which use this substance.

**STOT—single exposure**
May cause respiratory irritation. (methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate), (3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine)

**Severe effects after repeated or prolonged exposure**
Based on available data, the classification criteria are not met.
methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate (CAS-No.: 80-62-6):
Chronic oral toxicity (Rat., 104 weeks): NOAEL = >2000 mg/kg(bw)/day
Chronic inhalative toxicity (Rat., OECD 453, 104 weeks): NOEL = 500 ppm

**Carcinogenic/mutagenic/toxic effects for reproduction**
Based on available data, the classification criteria are not met.
methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate (CAS-No.: 80-62-6):
Carcinogenicity: NOAEC = >2,05 mg/l (Rat. OECD 451, 102 weeks)
Reproductive toxicity: NOAEL = 400 mg/kg(bw)/day (Rat. OECD 416)
Developmental toxicity/teratogenicity: NOAEC = >8,3 mg/l (Rat. OECD 414)

**Aspiration hazard**
Based on available data, the classification criteria are not met.

**Specific effects in experiment on an animal**
No information available.

### SECTION 12: Ecological information

#### 12.1 Toxicity

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Aquatic toxicity</th>
<th>Method</th>
<th>Dose</th>
<th>[h]</th>
<th>[d]</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>80-62-6</td>
<td>methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>79 mg/l</td>
<td>96</td>
<td></td>
<td>Oncorhynchus mykiss</td>
<td>ECHA Dossier</td>
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<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>&gt;110 mg/l</td>
<td>72</td>
<td></td>
<td>Pseudokirchnerella subcapitata</td>
<td>ECHA Dossier</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>69 mg/l</td>
<td>48</td>
<td></td>
<td>Daphnia magna</td>
<td>ECHA Dossier</td>
</tr>
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</table>

#### 12.2 Persistence and degradability

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Method</th>
<th>Value</th>
<th>d</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>80-62-6</td>
<td>methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate</td>
<td>OECD 301C / ISO 9408 / EWG 92/69 Anhang V, C.4-F</td>
<td>94%</td>
<td>14</td>
<td>ECHA Dossier</td>
</tr>
</tbody>
</table>

Easily biodegradable (concerning to the criteria of the OECD)

#### 12.3 Bioaccumulative potential

**Partition coefficient n-octanol/water**

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Log Pow</th>
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</thead>
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<tr>
<td>80-62-6</td>
<td>methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate</td>
<td>1.32</td>
</tr>
</tbody>
</table>
12.4. Mobility in soil
No data available

12.5. Results of PBT and vPvB assessment
The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects
No data available

Further information
Do not empty into drains or the aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal
Waste disposal according to official state regulations. Consult the local waste disposal expert about waste disposal. Cleaned containers may be recycled.
Control report for waste code/ waste marking according to EAKV:

Waste disposal number of waste from residues/unused products
080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances
   Classified as hazardous waste.

Waste disposal number of used product
080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances
   Classified as hazardous waste.

Waste disposal number of contaminated packaging
150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances
   Classified as hazardous waste.

Contaminated packaging
Handle contaminated packaging in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)
14.1. UN number: UN 1133
14.2. UN proper shipping name: Adhesives
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3

Classification code: F1
Special Provisions: 640D
Limited quantity: 5 L
### Partite 7315 Methacrylate Adhesive Activator

<table>
<thead>
<tr>
<th>Excepted quantity:</th>
<th>E0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport category:</td>
<td>2</td>
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<tr>
<td>Hazard No:</td>
<td>33</td>
</tr>
<tr>
<td>Tunnel restriction code:</td>
<td>D/E</td>
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</tbody>
</table>

#### Inland waterways transport (ADN)

<table>
<thead>
<tr>
<th>14.1. UN number:</th>
<th>UN 1133</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2. UN proper shipping name:</td>
<td>Adhesives</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es):</td>
<td>II</td>
</tr>
<tr>
<td>14.4. Packing group:</td>
<td>3</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>6</td>
</tr>
<tr>
<td>Classification code:</td>
<td>F1</td>
</tr>
<tr>
<td>Special Provisions:</td>
<td>640D</td>
</tr>
<tr>
<td>Limited quantity:</td>
<td>5 L</td>
</tr>
<tr>
<td>Excepted quantity:</td>
<td>E2</td>
</tr>
</tbody>
</table>

#### Marine transport (IMDG)

<table>
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<tr>
<th>14.1. UN number:</th>
<th>UN 1133</th>
</tr>
</thead>
<tbody>
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<td>Adhesives</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es):</td>
<td>II</td>
</tr>
<tr>
<td>14.4. Packing group:</td>
<td>3</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>6</td>
</tr>
<tr>
<td>Marine pollutant:</td>
<td>-</td>
</tr>
<tr>
<td>Special Provisions:</td>
<td>5</td>
</tr>
<tr>
<td>Limited quantity:</td>
<td>5 L</td>
</tr>
<tr>
<td>Excepted quantity:</td>
<td>E2</td>
</tr>
<tr>
<td>EmS:</td>
<td>F-E, S-D</td>
</tr>
</tbody>
</table>

#### Air transport (ICAO)

<table>
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<tr>
<th>14.1. UN number:</th>
<th>UN 1133</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2. UN proper shipping name:</td>
<td>Adhesives</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es):</td>
<td>II</td>
</tr>
<tr>
<td>14.4. Packing group:</td>
<td>3</td>
</tr>
<tr>
<td>Hazard label:</td>
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<tr>
<td>Special Provisions:</td>
<td>A3</td>
</tr>
<tr>
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</tr>
<tr>
<td>Passenger LQ:</td>
<td>Y341</td>
</tr>
<tr>
<td>Excepted quantity:</td>
<td>E2</td>
</tr>
<tr>
<td>IATA-packing instructions - Passenger:</td>
<td>353</td>
</tr>
<tr>
<td>IATA-max. quantity - Passenger:</td>
<td>5 L</td>
</tr>
<tr>
<td>IATA-packing instructions - Cargo:</td>
<td>364</td>
</tr>
</tbody>
</table>
14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

refer to chapter 6-8

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

irrelevant

SECTION 15: Regulatory information

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

EU regulatory information

Additional information

The preparation is dangerous in the sense of Directive 1999/45/EC. This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS]. Regulation 96/82/EC for danger control following severe accidents with dangerous substances: Appendix I, Part 2, No 7, (Seveso II). REACH 1907/2006 Appendix XVII, No 3

National regulatory information

Employment restrictions: Observe employment restrictions for young people.

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Rev. 1,00, 19.03.2015, Initial release

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)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization“ (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

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

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

Relevant R-phrases (Number and full text)

11 Highly flammable.

21/22 Harmful in contact with skin and if swallowed.

36/37/38 Irritating to eyes, respiratory system and skin.

37/38 Irritating to respiratory system and skin.

43 May cause sensitisation by skin contact.
Relevant H- and EUH-phrases (Number and full text)

H225   Highly flammable liquid and vapour.
H302   Harmful if swallowed.
H312   Harmful in contact with skin.
H315   Causes skin irritation.
H317   May cause an allergic skin reaction.
H319   Causes serious eye irritation.
H335   May cause respiratory irritation.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)