

# Safety Data Sheet

# SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

| Product identifier                            | Med Acrylic Enamel Reducer |
|---|----------------------------|
| Other means of identification<br>Product code | ADV 108-53                 |
| Recommended use                               | Solvent                    |

#### Manufacturer/Importer/Supplier/Distributor information

| Company name<br>Address | INTERNATIONAL AUTOBODY MARKETING GROUP<br>1505 NORTH HAYDEN RD, SUITE 111<br>SCOTTSDALE, AZ 85257<br>UNITED STATES |
|-------------------------|--|
| Website                 | www.advantagerefinish.com  |
| Telephone               | 1-87-REFINISH<br>480.451.4451  |

# Emergency phone number 800-424-9300 ChemTrec EMERGENCY 24 Hrs.

# SECTION 2. HAZARDS IDENTIFICATION

| GHS Classification<br>Flammable liquids               | Category 2   |
|---|--|
| Acute toxicit <b>y</b><br>(Inhalation)                | Category 4   |
| Skin irritation                                       | Category 2   |
| Eye irritation  | Category 2A  |
| Germ cell mutagenicity                                | Category 1B  |
| Carcinogenicity                                       | Category 2   |
| Reproductive toxicity                                 | Category 2   |
| Specific target organ tox-<br>icity - single exposure | Category 1 (Eyes, Central nervous system)              |
| Specific target organ tox-<br>icity - single exposure | Category 3 (Central nervous system)                    |
| Specific target organ tox-                            | Category 2 (Liver, Kidney, Central nervous system, Au- |

| icity - repeated exposure   | ditory system)  |
|---|---|
| Specific target organ tox-<br>icity - repeated exposure<br>(Inhalation) | Category 2 (Auditory system, Eyes)  |
| Aspiration hazard   | Category 1  |
| GHS Label element   |   |
| Hazard pictograms   |   |
| Signal word   | Danger  |
| Hazard statements   | <ul> <li>H225 Highly flammable liquid and vapour.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H315 Causes skin irritation.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H340 May cause genetic defects.</li> <li>H351 Suspected of causing cancer.</li> <li>H361 Suspected of damaging fertility or the unborn child.</li> <li>H370 Causes damage to organs (Eyes, Central nervous system).</li> <li>H373 May cause damage to organs (Liver, Kidney, Central nervous system, Auditory system) through prolonged or repeated exposure.</li> <li>H373 May cause damage to organs (Auditory system, Eyes) through prolonged or repeated exposure if inhaled.</li> </ul> |
| Precautionary statements  | <ul> <li>Prevention:</li> <li>P201 Obtain special instructions before use.</li> <li>P202 Do not handle until all safety precautions have been read and understood.</li> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P233 Keep container tightly closed.</li> <li>P240 Ground/bond container and receiving equipment.</li> <li>P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.</li> <li>P242 Use only non-sparking tools.</li> <li>P243 Take precautionary measures against static discharge.</li> <li>P260 Do not breathe dust/ fume/ gas/ mist/ vapours/</li> </ul>  |
|   |   |

spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ eye protection/ face protection.

P281 Use personal protective equipment as required. **Response:** 

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

 $\mathsf{P370}$  +  $\mathsf{P378}$  In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

#### Storage:

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.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

## **Potential Health Effects**

# Carcinogenicity:

 IARC
 Group 2B: Possibly carcinogenic to humans

 64742-49-0
 Naphtha (pet), hydrotreated

|       | 100-41-4  | Ethylbenzene |
|-------|---|--------------|
| ACGIH | No component of this product present at le<br>than or equal to 0.1% is identified as a ca<br>potential carcinogen by ACGIH. | -            |
| OSHA  | No component of this product present at la than or equal to 0.1% is identified as a ca potential carcinogen by OSHA.        |              |
| ΝΤΡ   | No component of this product present at lot than or equal to 0.1% is identified as a kn pated carcinogen by NTP.            | 5            |

aliph.

# **Emergency Overview**

| Appearance     | liquid                    |
|----------------|---------------------------|
| Colour         | clear, colourless         |
| Odour          | No data available         |
| Hazard Summary | No information available. |

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

## Hazardous components

| CAS-No.    | Chemical Name                                 | Concentration (%) |
|------------|---|-------------------|
| 108-88-3   | Toluene                                       | 30 - 50           |
| 64742-49-0 | Naphtha (pet), hydrotreated It                | 0 - 30            |
| 64742-89-8 | Solvent naphtha (pet), lt aliph.              | 0 - 30            |
| 68410-97-9 | Distillates, pet, It dist hydrotreat process, | 0 - 30            |
|            | low-boil                                      |                   |
| 67-64-1    | Acetone                                       | 10 - 20           |
| 111-76-2   | 2-Butoxy ethanol                              | 5 - 10            |
| 1330-20-7  | Mixed xylenes                                 | 5 - 10            |
| 67-56-1    | Methanol                                      | 1 - 5             |
| 100-41-4   | Ethylbenzene                                  | 1 - 5             |
| 142-82-5   | Heptane                                       | 0.1 - 1           |

# **Special Notes:**

Functionally equivalent petroleum streams may be found in this preparation at varying concentrations. ,Mixed Xylenes contains the isomers o-, m-, p- Xylene, and Ethylbenzene. Trace amounts of Toluene and Benzene may also be present as impurities.

# **SECTION 4. FIRST AID MEASURES**

| General advice          | Move out of dangerous area.<br>Show this safety data sheet to the doctor in attend-<br>ance.<br>Symptoms of poisoning may appear several hours<br>later.<br>Do not leave the victim unattended.   |
|-------------------------|---|
| If inhaled              | Consult a physician after significant exposure.<br>If unconscious place in recovery position and seek<br>medical advice.  |
| In case of skin contact | If skin irritation persists, call a physician.<br>If on skin, rinse well with water.<br>If on clothes, remove clothes.  |
| In case of eye contact  | Immediately flush eye(s) with plenty of water.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.   |
| If swallowed            | Keep respiratory tract clear.<br>Do NOT induce vomiting.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious per-<br>son.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital. |

# SECTION 5. FIREFIGHTING MEASURES

| Suitable extinguishing<br>media      | Alcohol-resistant foam<br>Carbon dioxide (CO2)<br>Dry chemical            |
|--------------------------------------|---|
| Unsuitable extinguishing<br>media    | High volume water jet   |
| Specific hazards during firefighting | Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion                 | Carbon oxides   |

## products

| Specific extinguishing methods                     | Use a water spray to cool fully closed containers.  |
|--|---|
| Further information                                | Collect contaminated fire extinguishing water sepa-<br>rately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing wa-<br>ter must be disposed of in accordance with local regu-<br>lations.<br>For safety reasons in case of fire, cans should be<br>stored separately in closed containments. |
| Special protective equip-<br>ment for firefighters | Wear self-contained breathing apparatus for fire-<br>fighting if necessary.   |

# **NFPA Flammable and Combustible Liquids Classification**: Flammable Liquid Class IB

# SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions,<br>protective equipment and<br>emergency procedures | Use personal protective equipment.<br>Ensure adequate ventilation.<br>Remove all sources of ignition.<br>Evacuate personnel to safe areas.<br>Beware of vapours accumulating to form explosive<br>concentrations. Vapours can accumulate in low areas. |
|---|--|
| Environmental precau-<br>tions  | Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains<br>inform respective authorities.   |
| Methods and materials<br>for containment and<br>cleaning up               | Contain spillage, and then collect with non-<br>combustible absorbent material, (e.g. sand, earth,<br>diatomaceous earth, vermiculite) and place in con-<br>tainer for disposal according to local / national regula-<br>tions (see section 13).       |

# SECTION 7. HANDLING AND STORAGE

| Advice on safe handling | Avoid formation of aerosol.                         |
|-------------------------|---|
|                         | Do not breathe vapours/dust.                        |
|                         | Avoid exposure - obtain special instructions before |
|                         | use.  |
|                         | Avoid contact with skin and eyes.                   |
|                         | For personal protection see section 8.              |

|                                  | Smoking, eating and drinking should be prohibited in the application area.   |
|----------------------------------|--|
|                                  | Take precautionary measures against static discharg-<br>es.  |
|                                  | Provide sufficient air exchange and/or exhaust in work rooms.  |
|                                  | Container may be opened only under exhaust ventila-<br>tion hood.  |
|                                  | Open drum carefully as content may be under pres-<br>sure.   |
|                                  | Dispose of rinse water in accordance with local and national regulations.  |
| Conditions for safe stor-<br>age | No smoking.<br>Keep container tightly closed in a dry and well-<br>ventilated place.   |
|                                  | Containers which are opened must be carefully re-<br>sealed and kept upright to prevent leakage.<br>Observe label precautions.<br>Electrical installations / working materials must com- |
|                                  | ply with the technological safety standards.   |

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| components |                                     | Tameters                            |   |           |
|------------|-------------------------------------|-------------------------------------|---|-----------|
| CAS-No.    | Components                          | Value type<br>(Form of<br>exposure) | Control parame-<br>ters / Permissi-<br>ble concentra-<br>tion | Basis     |
| 108-88-3   | Toluene                             | TWA                                 | 20 ppm  | ACGIH     |
|            |                                     | TWA                                 | 100 ppm<br>375 mg/m3  | NIOSH REL |
|            |                                     | ST                                  | 150 ppm<br>560 mg/m3  | NIOSH REL |
|            |                                     | TWA                                 | 200 ppm   | OSHA Z-2  |
|            |                                     | CEIL                                | 300 ppm   | OSHA Z-2  |
|            |                                     | Peak                                | 500 ppm   | OSHA Z-2  |
|            |                                     | TWA                                 | 100 ppm<br>375 mg/m3  | OSHA PO   |
|            |                                     | STEL                                | 150 ppm<br>560 mg/m3  | OSHA PO   |
| 64742-49-0 | Naphtha (pet), hydrotreat-<br>ed It | TWA                                 | 500 ppm<br>2,000 mg/m3  | OSHA Z-1  |
|            |                                     | TWA                                 | 400 ppm<br>1,600 mg/m3  | OSHA PO   |
| 64742-89-8 | Solvent naphtha (pet), lt<br>aliph. | TWA                                 | 500 ppm<br>2,000 mg/m3  | OSHA Z-1  |

# Components with workplace control parameters

|           |                  | TWA  | 400 ppm<br>1,600 mg/m3   | OSHA PO   |
|-----------|------------------|------|--------------------------|-----------|
| 67-64-1   | Acetone          | TWA  | 500 ppm                  | ACGIH     |
|           |                  | STEL | 750 ppm                  | ACGIH     |
|           |                  | TWA  | 250 ppm<br>590 mg/m3     | NIOSH REL |
|           |                  | TWA  | 1,000 ppm<br>2,400 mg/m3 | OSHA Z-1  |
|           |                  | TWA  | 750 ppm<br>1,800 mg/m3   | OSHA PO   |
|           |                  | STEL | 1,000 ppm<br>2,400 mg/m3 | OSHA PO   |
| 111-76-2  | 2-Butoxy ethanol | TWA  | 20 ppm                   | ACGIH     |
|           |                  | TWA  | 5 ppm<br>24 mg/m3        | NIOSH REL |
|           |                  | TWA  | 50 ppm<br>240 mg/m3      | OSHA Z-1  |
|           |                  | TWA  | 25 ppm<br>120 mg/m3      | OSHA PO   |
| 1330-20-7 | Mixed xylenes    | TWA  | 100 ppm                  | ACGIH     |
| _         | Τ                | STEL | 150 ppm                  | ACGIH     |
|           |                  | TWA  | 100 ppm<br>435 mg/m3     | OSHA Z-1  |
| 67-56-1   | Methanol         | TWA  | 200 ppm                  | ACGIH     |
|           |                  | STEL | 250 ppm                  | ACGIH     |
|           |                  | TWA  | 200 ppm<br>260 mg/m3     | NIOSH REL |
|           |                  | ST   | 250 ppm<br>325 mg/m3     | NIOSH REL |
|           |                  | TWA  | 200 ppm<br>260 mg/m3     | OSHA Z-1  |
|           |                  | STEL | 250 ppm<br>325 mg/m3     | OSHA P0   |
|           |                  | TWA  | 200 ppm<br>260 mg/m3     | OSHA P0   |
| 100-41-4  | Ethylbenzene     | TWA  | 20 ppm                   | ACGIH     |
| L         |                  | STEL | 125 ppm                  | ACGIH     |
|           |                  | TWA  | 100 ppm<br>435 mg/m3     | NIOSH REL |
|           |                  | ST   | 125 ppm<br>545 mg/m3     | NIOSH REL |
|           |                  | TWA  | 100 ppm<br>435 mg/m3     | OSHA Z-1  |
|           |                  | TWA  | 100 ppm<br>435 mg/m3     | OSHA P0   |
|           |                  | STEL | 125 ppm<br>545 mg/m3     | OSHA P0   |
| 142-82-5  | Heptane          | TWA  | 85 ppm<br>350 mg/m3      | NIOSH REL |

| С    | 440 ppm<br>1,800 mg/m3 | NIOSH REL |
|------|------------------------|-----------|
| TWA  | 500 ppm<br>2,000 mg/m3 | OSHA Z-1  |
| TWA  | 400 ppm<br>1,600 mg/m3 | OSHA PO   |
| STEL | 500 ppm<br>2,000 mg/m3 | OSHA PO   |

# Biological occupational exposure limits

| Components       | CAS-No.      | Control<br>parame               | Biological specimen | Sam-<br>pling  | Permissi-<br>ble con-  | Basis         |
|------------------|--------------|---------------------------------|---------------------|--|------------------------|---------------|
|                  |              | - ters                          | opeennen            | time   | centration             |               |
| Toluene          | 108-88-<br>3 | Toluene                         | In blood            | Prior to<br>last<br>shift of<br>work-<br>week                                      | 0.02 mg/l              | ACGI<br>H BEI |
|                  |              | Toluene                         | Urine               | End of<br>shift<br>(As<br>soon as<br>possible<br>after<br>expo-<br>sure<br>ceases) | 0.03 mg/l              | ACGI<br>H BEI |
|                  |              | o-Cresol                        | Urine               | End of<br>shift<br>(As<br>soon as<br>possible<br>after<br>expo-<br>sure<br>ceases) | 0.3 mg/g<br>Creatinine | ACGI<br>H BEI |
| Acetone          | 67-64-1      | Acetone                         | Urine               | End of<br>shift<br>(As<br>soon as<br>possible<br>after<br>expo-<br>sure<br>ceases) | 50 mg/l                | ACGI<br>H BEI |
| 2-Butoxy ethanol | 111-76-<br>2 | Butoxya-<br>cetic acid<br>(BAA) | Urine               | End of<br>shift<br>(As<br>soon as<br>possible                                      | 200 mg/g<br>Creatinine | ACGI<br>H BEI |

|              |              |   |       | after<br>expo-<br>sure<br>ceases)  |                       |               |
|--------------|--------------|---|-------|--|-----------------------|---------------|
| Methanol     | 67-56-1      | Methanol  | Urine | End of<br>shift<br>(As<br>soon as<br>possible<br>after<br>expo-<br>sure<br>ceases) | 15 mg/l               | ACGI<br>H BEI |
| Ethylbenzene | 100-41-<br>4 | Sum of<br>mandelic<br>acid and<br>phenyl<br>glyoxylic<br>acid | Urine | End of<br>shift at<br>end of<br>work-<br>week                                      | 0.7 g/g<br>creatinine | ACGI<br>H BEI |

Gastro intestinal illness caused by benzene, toluene, xylene and all products in which they are contained.Health effects caused by professional use of liquid organic solvents (indicated in the table).Occupational rhinitis and asthma.Haemopathic effects caused by benzene and all products in which it is contained.

## Personal protective equipment

| Respiratory protection     | No personal respiratory protective equipment normally required.<br>In the case of vapour formation use a respirator with an approved filter.     |
|----------------------------|--|
| Hand protection<br>Remarks | The suitability for a specific workplace should be dis-<br>cussed with the producers of the protective gloves.                                   |
| Eye protection             | Eye wash bottle with pure water<br>Tightly fitting safety goggles<br>Wear face-shield and protective suit for abnormal pro-<br>cessing problems. |
| Skin and body protection   | impervious clothing<br>Choose body protection according to the amount and<br>concentration of the dangerous substance at the work<br>place.      |
| Hygiene measures           | When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and at the end of workday.                               |

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance  | liquid  |
|---|---|
| Colour  | clear, colourless   |
| Odour   | No data available   |
| Odour Threshold   | No data available   |
| рН  | No data available   |
| Freezing Point  | No data available   |
| Boiling Point (Boiling point/boiling range)   | 56 - 173.5 °C (133 - 344.3 °F)  |
| Flash point   | >= -20 °C (-4 °F)   |
| Evaporation rate  | No data available   |
| Flammability (solid, gas)   | No data available   |
| Burning rate  | No data available   |
| Upper explosion limit   | 7 - 36.5 %(V)   |
|   |   |
| Lower explosion limit   | 0.8 - 6 %(V)  |
| Lower explosion limit<br>Vapour pressure  | 0.8 - 6 %(V)<br>231 mmHg @ 25 °C (77 °F)<br>Calculated Vapor Pressure   |
|   | 231 mmHg @ 25 °C (77 °F)  |
| Vapour pressure   | 231 mmHg @ 25 °C (77 °F)<br>Calculated Vapor Pressure   |
| Vapour pressure<br>Relative vapour density  | 231 mmHg @ 25 °C (77 °F)<br>Calculated Vapor Pressure<br>No data available  |
| Vapour pressure<br>Relative vapour density<br>Relative density  | 231 mmHg @ 25 °C (77 °F)<br>Calculated Vapor Pressure<br>No data available<br>0.809   |
| Vapour pressure<br>Relative vapour density<br>Relative density<br>Density   | 231 mmHg @ 25 °C (77 °F)<br>Calculated Vapor Pressure<br>No data available<br>0.809<br>0.809 g/cm3  |
| Vapour pressure<br>Relative vapour density<br>Relative density<br>Density<br>Bulk density   | 231 mmHg @ 25 °C (77 °F)<br>Calculated Vapor Pressure<br>No data available<br>0.809<br>0.809 g/cm3<br>No data available   |
| Vapour pressure<br>Relative vapour density<br>Relative density<br>Density<br>Bulk density<br>Water solubility<br>Solubility in other sol-                                       | 231 mmHg @ 25 °C (77 °F)<br>Calculated Vapor Pressure<br>No data available<br>0.809<br>0.809 g/cm3<br>No data available<br>No data available                      |
| Vapour pressure<br>Relative vapour density<br>Relative density<br>Density<br>Bulk density<br>Water solubility<br>Solubility in other sol-<br>vents<br>Partition coefficient: n- | 231 mmHg @ 25 °C (77 °F)<br>Calculated Vapor Pressure<br>No data available<br>0.809<br>0.809 g/cm3<br>No data available<br>No data available<br>No data available |

| Regulatory VOC (lbs/gal) | 6.83   |
|--------------------------|--------|
| Regulatory VOC (g/l)     | 820.00 |
| Actual VOC (lbs/gal)     | 5.88   |
| Actual VOC (g/l)         | 706.00 |

# SECTION 10. STABILITY AND REACTIVITY

| Reactivity                         | No dangerous reaction known under conditions of normal use.  |
|------------------------------------|--|
| Chemical stability                 | Stable under normal conditions.  |
| Possibility of hazardous reactions | Product will not undergo hazardous polymerization.<br>No hazards to be specially mentioned.  |
| Conditions to avoid                | Keep away from heat, flame, sparks and other ignition<br>sources.<br>Do not allow evaporation to dryness.<br>Extremes of temperature and direct sunlight.  |
| Incompatible materials             | Strong oxidizing agents<br>Acids<br>Amines<br>Ammonia<br>halogens<br>Peroxides<br>Reducing agents<br>aluminum<br>Bases<br>chlorates<br>Chlorine<br>salts of strong bases<br>Lead<br>sodium<br>Zinc |
| Hazardous decomposition products   | carbon dioxide and carbon monoxide   |

# SECTION 11. TOXICOLOGICAL INFORMATION

## Acute toxicity

**Product:** Acute oral toxicity

| Acute inhalation toxicity                 | Acute toxicity estimate : 13608 ppm<br>Exposure time: 4 h<br>Test atmosphere: gas<br>Method: Calculation method            |
|---|--|
| Acute dermal toxicity                     | Acute toxicity estimate : 4,586 mg/kg<br>Method: Calculation method  |
| <u>Components:</u>                        |  |
| 108-88-3:<br>Acute oral toxicity          | LD50 (rat, male): > 5,580 mg/kg  |
| Acute inhalation toxicity                 | LC50 (rat, male and female): 28.1 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour<br>Method: OECD Test Guideline 403 |
| Acute dermal toxicity                     | LD50 (rabbit): > 5,000 mg/kg   |
| 64742-49-0:                               |  |
| Acute oral toxicity                       | LD50 (rat, male and female): > 5,000 mg/kg<br>Method: OECD Test Guideline 401<br>GLP: yes                                  |
| Acute inhalation toxicity                 | Remarks: No data available   |
| Acute dermal toxicity                     | LD50 (rabbit, male and female): > 2,000 mg/kg<br>Method: OECD Test Guideline 402<br>GLP: yes                               |
| 64742-89-8:                               |  |
| Acute oral toxicity                       | LD50 (rat, male and female): > 5,000 mg/kg<br>Method: OECD Test Guideline 401<br>GLP: yes                                  |
| Acute inhalation toxicity                 | Remarks: No data available   |
| Acute dermal toxicity                     | LD50 (rabbit, male and female): > 2,000 mg/kg<br>Method: OECD Test Guideline 402<br>GLP: yes                               |
| <b>68410-97-9:</b><br>Acute oral toxicity | LD50 (rat): > 5,000 mg/kg  |
|   |  |
| Acute inhalation toxicity                 | Remarks: No data available   |
| Acute dermal toxicity                     | LD50 (rabbit): > 2,000 mg/kg   |
| 67-64-1:                                  |  |

| Acute oral toxicity                     | LD50 (rat): 5,800 mg/kg  |
|---|--|
| Acute inhalation toxicity               | LC50 (rat): 76.0 mg/l<br>Exposure time: 4 h  |
| Acute dermal toxicity                   | LD50 : > 7,426 mg/kg   |
| <b>111-76-2:</b><br>Acute oral toxicity | LD50 (rat): 745 mg/kg<br>Assessment: The component/mixture is moderately<br>toxic after single ingestion.  |
| Acute inhalation toxicity               | LC50 (rat): 550 ppm<br>Exposure time: 4 h<br>Assessment: The component/mixture is moderately<br>toxic after short term inhalation.   |
| Acute dermal toxicity                   | LD50 (rat): 1,250 mg/kg<br>Assessment: The component/mixture is moderately<br>toxic after single contact with skin.  |
| 1330-20-7:<br>Acute oral toxicity       | LD50 (rat, male): 3,523 mg/kg<br>Method: EU Method B.1 (Acute Toxicity, Oral)<br>GLP: no   |
| Acute inhalation toxicity               | LC50 (rat, male): 6700 ppm<br>Exposure time: 4 h<br>Method: Directive 67/548/EEC, Annex V, B.2.<br>Assessment: The component/mixture is moderately<br>toxic after short term inhalation. |
| Acute dermal toxicity                   | LD50 (rabbit): 1,100 mg/kg<br>Assessment: The component/mixture is moderately<br>toxic after single contact with skin.   |
| <b>67-56-1:</b><br>Acute oral toxicity  | LD50 (rat): 100 mg/kg<br>Assessment: The component/mixture is toxic after<br>single ingestion.   |
| Acute inhalation toxicity               | LC50 (rat): 5 mg/l<br>Assessment: The component/mixture is toxic after<br>short term inhalation.   |
| Acute dermal toxicity                   | LD50 (rabbit): 300 mg/kg<br>Assessment: The component/mixture is toxic after<br>single contact with skin.  |

| Acute inhalation toxicity        | LC50 (Mouse, Male): 10 mg/l<br>Exposure time: 4 h<br>Assessment: The component/mixture is moderately<br>toxic after short term inhalation.  |
|----------------------------------|---|
| Acute dermal toxicity            | LD50 (rabbit): 15,433 mg/kg   |
| 142-82-5:<br>Acute oral toxicity | LD50 (rat, male and female): 5,000 mg/kg<br>Method: OECD Test Guideline 401<br>Symptoms: Salivation<br>GLP: yes<br>Remarks: Information given is based on data obtained<br>from similar substances. |
| Acute inhalation toxicity        | LC50 (rat, male and female): 73.5 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour<br>Method: OECD Test Guideline 403  |
| Acute dermal toxicity            | LD50 (rabbit, male and female): > 2,000 mg/kg<br>Method: OECD Test Guideline 402<br>GLP: yes<br>Remarks: Information given is based on data obtained<br>from similar substances.                    |

## Skin corrosion/irritation

# Product:

Remarks: Irritating to skin.

# **Components:**

## 108-88-3:

Species: rabbit Exposure time: 4 h Result: Irritating to skin.

#### 64742-49-0:

Species: rabbit Result: Irritating to skin.

## 64742-89-8:

Species: rabbit Exposure time: 4 h Result: Irritating to skin.

# 68410-97-9:

Species: rabbit Result: Irritating to skin.

#### 67-64-1:

Species: rabbit Exposure time: 24 h Method: In vivo Result: Mild skin irritation

#### 111-76-2:

Species: rabbit Result: Irritating to skin.

## 1330-20-7:

Species: rabbit Exposure time: 24 h Result: Irritating to skin.

## 67-56-1:

Species: rabbit Result: No skin irritation

#### 100-41-4:

Species: rabbit Result: Mild skin irritation

#### 142-82-5:

Species: rabbit Exposure time: 24 h Method: OECD Test Guideline 404 Result: Irritating to skin. GLP: yes Remarks: Based on a similar product formulation.

#### Serious eye damage/eye irritation

**Product:** Remarks: Irritating to eyes.

#### **Components:**

**108-88-3:** Species: rabbit Result: Irritating to eyes. Method: OECD Test Guideline 405

## 64742-49-0:

Species: rabbit Result: Irritating to eyes.

**64742-89-8:** Species: rabbit Result: Irritating to eyes.

#### 68410-97-9:

Species: rabbit Result: Irritating to eyes.

# 67-64-1:

Species: rabbit Result: Irritating to eyes. Exposure time: 24 h

# 111-76-2:

Species: rabbit Result: Irritating to eyes.

# 1330-20-7:

Species: rabbit Result: Irritating to eyes.

# 67-56-1:

Species: rabbit Result: No eye irritation

# 100-41-4:

Species: rabbit Result: Mild eye irritation

# 142-82-5:

Species: rabbit Result: Irritating to eyes. Method: OECD Test Guideline 405 GLP: yes Remarks: Information given is based on data obtained from similar substances.

# Respiratory or skin sensitisation

# Components:

**108-88-3:** Test Type: Maximisation Test (GPMT) Species: guinea pig Result: Did not cause sensitisation on laboratory animals. GLP: yes

# 64742-49-0:

Test Type: Buehler Test Species: guinea pig Result: Did not cause sensitisation on laboratory animals.

# 64742-89-8:

Test Type: Buehler Test Species: guinea pig Result: Did not cause sensitisation on laboratory animals.

## 67-64-1:

Test Type: Maximization test Species: guinea pig Result: Did not cause sensitisation on laboratory animals.

# 111-76-2:

Test Type: Maximization test Species: guinea pig Result: Did not cause sensitisation on laboratory animals.

# 1330-20-7:

Remarks: No data available

## 67-56-1:

Test Type: Maximisation Test (GPMT) Species: guinea pig Method: OECD Test Guideline 406 Result: Did not cause sensitisation on laboratory animals.

## 100-41-4:

Remarks: No data available

# 142-82-5:

Test Type: Maximization test Species: guinea pig Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation. Remarks: Based on a similar product formulation.

## Germ cell mutagenicity

## Components:

| 108-88-3:             |   |
|-----------------------|---|
| Genotoxicity in vitro | Test Type: Mammalian cell gene mutation assay<br>Test species: Mouse lymphoma cells |
|                       | Metabolic activation: with and without metabolic acti-<br>vation                    |
|                       | Method: OECD Test Guideline 476   |
|                       | Result: negative  |
| Genotoxicity in vivo  | Test Type: Dominant lethal assay  |
|                       | Test species: mouse (male)  |
|                       | Application Route: inhalation (vapour)  |
|                       | Exposure time: 6 h/d, 5 d/wk for 8 wks  |
|                       | Dose: 0, 100, 400 ppm   |
|                       | Method: OECD Test Guideline 478   |
|                       | Result: negative  |

| Germ cell mutagenicity-<br>Assessment                       | Tests on bacterial or mammalian cell cultures did not show mutagenic effects.  |
|---|--|
| <b>64742-49-0:</b><br>Germ cell mutagenicity-<br>Assessment | Mutagenicity classification not possible from current data   |
| <b>64742-89-8:</b><br>Germ cell mutagenicity-<br>Assessment | Mutagenicity classification not possible from current data   |
| <b>68410-97-9:</b><br>Genotoxicity in vitro                 | Test Type: Mammalian cell gene mutation assay<br>Test species: mouse lymphoma cells<br>Result: positive  |
| Genotoxicity in vivo  | Test Type: In vivo micronucleus test<br>Test species: mouse<br>Method: OECD Test Guideline 474<br>Result: positive   |
| Germ cell mutagenicity-<br>Assessment                       | Positive result(s) from in vivo heritable germ cell mu-<br>tagenicity tests in mammals   |
| <b>67-64-1:</b><br>Genotoxicity in vitro                    | Test Type: Mammalian cell gene mutation assay<br>Test species: Mouse lymphoma cells<br>Metabolic activation: Without metabolic activation<br>Method: OECD Test Guideline 476<br>Result: negative                       |
|   | Test Type: Ames test<br>Metabolic activation: with and without metabolic acti-<br>vation<br>Method: OECD Test Guideline 471<br>Result: negative  |
|   | Test Type: Chromosome aberration test in vitro<br>Test species: Chinese hamster ovary (CHO)<br>Metabolic activation: with and without metabolic acti-<br>vation<br>Method: OECD Test Guideline 473<br>Result: negative |
| Genotoxicity in vivo  | Test Type: In vivo micronucleus test<br>Test species: mouse<br>Application Route: Oral<br>Exposure time: 13 wk<br>Dose: 5,000, 10,000, 20,000 ppm<br>Result: negative  |

| Germ cell mutagenicity-<br>Assessment      | Tests on bacterial or mammalian cell cultures did not show mutagenic effects.   |
|--|---|
| <b>111-76-2:</b><br>Genotoxicity in vitro  | Test Type: Mammalian cell gene mutation assay<br>Test species: Chinese hamster ovary (CHO)<br>Metabolic activation: with and without metabolic acti-<br>vation<br>Result: negative  |
| Genotoxicity in vivo                       | Test Type: In vivo micronucleus test<br>Test species: mouse (male)<br>Application Route: Intraperitoneal<br>Result: negative  |
| Germ cell mutagenicity-<br>Assessment      | Tests on bacterial or mammalian cell cultures did not show mutagenic effects.   |
| <b>1330-20-7:</b><br>Genotoxicity in vitro | Test Type: Chromosome aberration test in vitro<br>Test species: Chinese hamster ovary (CHO)<br>Metabolic activation: with and without metabolic acti-<br>vation<br>Method: Mutagenicity (in vitro mammalian cytogenetic<br>test)<br>Result: negative<br>Test Type: Sister chromatid exchange assay in mam-<br>malian cells<br>Test species: Chinese hamster ovary (CHO)<br>Metabolic activation: with and without metabolic acti- |
|  | vation<br>Result: negative  |
| Genotoxicity in vivo                       | Test Type: Dominant lethal assay<br>Test species: mouse<br>Application Route: Subcutaneous<br>Exposure time: 8 wk<br>Dose: 1.0 mL/kg<br>Method: OECD Test Guideline 478<br>Result: negative<br>GLP: no  |
| Germ cell mutagenicity-<br>Assessment      | Animal testing did not show any mutagenic effects.  |
| <b>67-56-1:</b><br>Genotoxicity in vitro   | Test Type: DNA damage and/or repair<br>Metabolic activation: with and without metabolic acti-   |

|   | vation<br>Result: Ambiguous   |
|---|---|
| Genotoxicity in vivo                      | Test Type: In vivo micronucleus test<br>Test species: mouse (male and female)<br>Cell type: Bone marrow<br>Application Route: Intraperitoneal<br>Exposure time: Single<br>Dose: 0, 1920, 3200, 4480 mg/kg<br>Result: negative   |
| Germ cell mutagenicity-<br>Assessment     | Tests on bacterial or mammalian cell cultures did not show mutagenic effects.   |
| <b>100-41-4:</b><br>Genotoxicity in vitro | Test Type: Chromosome aberration test in vitro<br>Test species: Chinese hamster ovary (CHO)<br>Metabolic activation: with and without metabolic acti-<br>vation<br>Method: OECD Test Guideline 473<br>Result: negative<br>GLP: no<br>Test Type: Mammalian cell gene mutation assay<br>Test species: mouse lymphoma cells<br>Metabolic activation: with and without metabolic acti-<br>vation<br>Method: OECD Test Guideline 476 |
| Genotoxicity in vivo                      | Result: negative<br>GLP: yes<br>Test Type: In vivo micronucleus test<br>Test species: mouse (male)<br>Application Route: Oral<br>Method: OECD Test Guideline 474<br>Result: negative<br>GLP: yes  |
|   | Test Type: DNA damage and/or repair<br>Test species: mouse (male and female)<br>Application Route: Inhalation<br>Method: OECD Test Guideline 486<br>Result: negative<br>GLP: yes  |
| Germ cell mutagenicity-<br>Assessment     | In vivo tests did not show mutagenic effects  |
|   |   |

# 142-82-5:

Genotoxicity in vitro

Test species: Rat liver Metabolic activation: Without metabolic activation Method: OECD Test Guideline 473 Result: negative

Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative

Did not show mutagenic effects in animal experi-Germ cell mutagenicityments. Assessment

#### Carcinogenicity

#### **Components:**

#### 108-88-3:

Species: rat, (male and female) Application Route: inhalation (vapour) Exposure time: 103 wks Dose: 0, 600, 1200 ppm Frequency of Treatment: 6.5 h/d, 5 d/wk NOAEL: No observed adverse effect level: 1,200 ppm

Method: OECD Test Guideline 453 Result: did not display carcinogenic properties Symptoms: Erosion of nasal epithelium GLP: yes

Carcinogenicity - Assessment

Not classifiable as a human carcinogen.

# 64742-49-0:

Carcinogenicity - Assessment

Not classifiable as a human carcinogen.

# 64742-89-8:

Carcinogenicity - Assessment

Not classifiable as a human carcinogen.

## 68410-97-9:

Species: mouse NOAEL: 50 mg/kg bw/day

Method: OECD Test Guideline 451 Result: evidence of carcinogenic activity

sessment

Carcinogenicity - As- : Possible human carcinogen

#### 67-64-1:

Species: mouse, (female) Application Route: Dermal Exposure time: 365 d (90%) or 424 d (100%) Dose: 0.1ml 90(71mg) or 100% (79mg) Frequency of Treatment: 3 times per wk NOAEL: 79

Result: did not display carcinogenic properties

Carcinogenicity - As-<br/>sessmentCarcinogenicity classification not possible from current<br/>data.

## 111-76-2:

Species: mouse Application Route: Inhalation Exposure time: 2 yr Activity duration: 6 h Frequency of Treatment: 5 days/week NOAEL: 125 ppm

Result: Limited evidence of carcinogenic effects with no relevance to humans

Carcinogenicity - As- : Not classifiable as a human carcinogen. sessment

## 1330-20-7:

Species: mouse, (male and female) Application Route: Oral Exposure time: 103 wk Dose: 0, 500 or 1000 mg/kg Frequency of Treatment: 5 days/week Method: Directive 67/548/EEC, Annex V, B.32. Result: did not display carcinogenic properties GLP: No data available

Carcinogenicity - As- Animal testing did not show any carcinogenic effects. sessment

# 67-56-1:

Carcinogenicity - Assessment

Suspected human carcinogens

# 100-41-4:

Species: mouse, (male and female) Application Route: Inhalation Exposure time: 103 wk Activity duration: 6 h Dose: 0, 75, 250, 750 ppm Frequency of Treatment: 5 days/week NOAEL: 250 ppm

Method: OECD Test Guideline 453 Result: evidence of carcinogenic activity Symptoms: increased incidences of alveolar/bronchiolar neoplasms, increase incidence of hepatocellular carcinomas GLP: yes

Carcinogenicity - As- Suspected human carcinogens sessment

# 142-82-5:

Remarks: This information is not available.

| Carcinogenicity - As- | Carcinogenicity classification not possible from current |
|-----------------------|--|
| sessment              | data.  |

#### **Reproductive toxicity**

# Components:

108-88-3:

| Effects on fertility               | Test Type: Two-generation study<br>Species: rat, male and female<br>Application Route: Inhalation<br>Dose: 0, 100, 500, 2000 ppm<br>Frequency of Treatment: 7 days/week<br>General Toxicity - Parent: NOAEC: 500 ppm<br>General Toxicity F1: NOAEC: 500 ppm<br>Fertility: NOAEC: 2,000 ppm<br>Symptoms: Reduced maternal body weight gain. Re-<br>duced offspring weight gain.<br>Method: OECD Test Guideline 416<br>Result: Animal testing did not show any effects on<br>fertility.<br>GLP: yes |  |
|------------------------------------|---|--|
|                                    | Test Type: Fertility<br>Species: rat, male and female<br>Application Route: inhalation (vapour)<br>Dose: 0, 600, 1200 ppm<br>Frequency of Treatment: 7 days/week<br>General Toxicity - Parent: NOAEC: 600 ppm<br>Symptoms: Decreased sperm count<br>Result: Animal testing did not show any effects on<br>fertility.  |  |
| Effects on foetal devel-<br>opment | Species: rat<br>Application Route: inhalation (vapour)<br>Dose: 0, 250, 750, 1500, 3000 ppm   |  |

Duration of Single Treatment: 10 d Frequency of Treatment: 6 hr/day General Toxicity Maternal: NOAEC: 750 ppm Developmental Toxicity: NOAEC: 750 ppm Symptoms: Maternal toxicity, Reduced body weight, Skeletal malformations. GLP: yes

Some evidence of adverse effects on sexual function

and fertility, and/or on development, based on animal

Reproductive toxicity -Assessment

64742-49-0:

Reproductive toxicity -Assessment

Fertility classification not possible from current data. Embryotoxicity classification not possible from current data.

#### 64742-89-8: Reproductive toxicity -Assessment

Fertility classification not possible from current data. Embryotoxicity classification not possible from current data.

experiments.

68410-97-9:

Fertility classification not possible from current data. Embryotoxicity classification not possible from current data.

Species: rat, male Application Route: oral Dose: 0, 5000, 10000 mg/L Frequency of Treatment: 7 days/week General Toxicity - Parent: LOAEL: 10,000 Fertility: 10,000

Effects on foetal development

Species: rat Application Route: Inhalation Dose: 0, 440, 2200, 11000 ppm Frequency of Treatment: 7 days/week General Toxicity Maternal: NOAEC: 2,200 ppm Teratogenicity: NOAEC: 11,000 ppm Embryo-foetal toxicity.: NOAEC: 2,200 ppm Method: OECD Test Guideline 414 Result: No teratogenic potential. GLP: No data available

Reproductive toxicity -No evidence of adverse effects on sexual function and Assessment fertility, and on development, based on animal experiments.

Reproductive toxicity -Assessment

# 67-64-1:

Effects on fertility

| Effects on fertility     | Test Type: Two-generation study  |
|--------------------------|--|
|                          | Species: mouse   |
|                          | Application Route: oral  |
|                          | Fertility: NOAEL: 720 mg/kg body weight                                |
|                          | Symptoms: Reduced fertility  |
|                          | Result: Reduced fertility at maternally toxic doses                    |
| Effects on foetal devel- | Test Type: Embryo-foetal development                                   |
| opment                   | Species: rat   |
|                          | Application Route: Inhalation<br>Duration of Single Treatment: 10 d    |
|                          | Frequency of Treatment: 6 hr/day                                       |
|                          | Developmental Toxicity: Lowest observed adverse                        |
|                          | effect level: 100 ppm  |
|                          | Result: Developmental toxicity occurred at maternal                    |
|                          | toxicity dose levels   |
| Reproductive toxicity -  | No evidence of adverse effects on sexual function and                  |
| Assessment               | fertility, and on development, based on animal exper-                  |
|                          | iments.  |
| 1330-20-7:               |  |
| Effects on fertility     | Test Type: Two-generation study  |
|                          | Species: rat, male and female  |
|                          | Application Route: Inhalation<br>Dose: 0, 25, 100 and 500 ppm          |
|                          | Duration of Single Treatment: 6 h                                      |
|                          | Frequency of Treatment: 7 days/week                                    |
|                          | General Toxicity - Parent: NOAEC: > 500 ppm                            |
|                          | General Toxicity F1: NOAEC: > 500 ppm                                  |
|                          | Early Embryonic Development: NOAEC: > 500 ppm                          |
|                          | Result: No reproductive effects.                                       |
| Effects on foetal devel- | Species: rat   |
| opment                   | Application Route: Inhalation  |
|                          | Dose: 0, 100, 500, 1000 or 2000 ppm                                    |
|                          | Duration of Single Treatment: 14 d<br>Frequency of Treatment: 6 hr/day |
|                          | General Toxicity Maternal: NOAEC: 500 ppm                              |
|                          | Teratogenicity: NOAEC: > 2,000   |
|                          | Developmental Toxicity: NOAEC: 100 ppm                                 |
|                          | Result: No teratogenic effects., Developmental toxicity                |
|                          | occurred at maternal toxicity dose levels                              |
| Reproductive toxicity -  | Animal testing did not show any effects on fertility.                  |
| Assessment               | Damage to fetus not classifiable                                       |
| 67-56-1:                 |  |
| Effects on fertility     | Test Type: Two-generation study  |
|                          | Species: rat, male and female  |
|                          | Application Route: Inhalation  |

|  | Dose: 0, 0.013, 0.13, 1.3 mg/L<br>Duration of Single Treatment: 20 h<br>General Toxicity - Parent: NOAEC: 1.3 mg/l<br>General Toxicity F1: NOAEC: 0.13 mg/l<br>Fertility: NOAEC: 1.3 mg/l<br>Symptoms: Effects on postnatal development.<br>Result: Animal testing did not show any effects on<br>fertility.   |
|--|--|
| Effects on foetal devel-<br>opment       | Species: rat<br>Application Route: inhalation (vapour)<br>Dose: 0, 6.65, 13.3, 26.6 mg/L<br>Duration of Single Treatment: 20 d<br>Frequency of Treatment: 7 hr/day<br>General Toxicity Maternal: NOAEC: 13.3 mg/L<br>Teratogenicity: NOAEC: 6.65 mg/L<br>Result: Teratogenic effects.  |
| Reproductive toxicity -<br>Assessment    | Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.   |
| <b>100-41-4:</b><br>Effects on fertility | Test Type: One generation study<br>Species: rat, male and female<br>Application Route: Inhalation<br>Dose: 0, 100, 500 and 1000 ppm<br>Duration of Single Treatment: 6 h<br>General Toxicity - Parent: NOAEC: 1,000 ppm<br>General Toxicity F1: NOAEC: 100 ppm<br>Symptoms: Reduced foetal weight. Reduced offspring<br>weight gain.<br>Method: OECD Test Guideline 415<br>Result: No reproductive effects.<br>GLP: yes          |
| Effects on foetal devel-<br>opment       | Species: rat<br>Application Route: Inhalation<br>Dose: 0, 100, 500, 1000, 2000 ppm<br>Duration of Single Treatment: 15 d<br>General Toxicity Maternal: NOAEC: 500 ppm<br>Teratogenicity: NOAEC: 2,000 ppm<br>Developmental Toxicity: NOAEC: 500 ppm<br>Symptoms: Reduced body weight<br>Method: OECD Test Guideline 414<br>Result: Developmental toxicity occurred at maternal<br>toxicity dose levels<br>GLP: No data available |
| Reproductive toxicity -<br>Assessment    | Fertility classification not possible from current data.<br>Embryotoxicity classification not possible from current  |

data.

| 142-82-5:                |  |  |
|--------------------------|--|--|
| Effects on fertility     | Test Type: Two-generation study  |  |
|                          | Species: rat, male and female  |  |
|                          | Application Route: vapour  |  |
|                          | Dose: 0, 900, 3000, 9000 ppm   |  |
|                          | Frequency of Treatment: 5 days/week  |  |
|                          | General Toxicity - Parent: NOAEC: 3,000 ppm                                      |  |
|                          | General Toxicity F1: NOAEC: 3,000 ppm  |  |
|                          | Fertility: NOAEC: 9,000 ppm  |  |
|                          | Symptoms: Reduced maternal body weight gain. Re-<br>duced offspring weight gain. |  |
|                          | Method: OECD Test Guideline 416  |  |
|                          | Result: No reproductive effects.<br>GLP: yes                                     |  |
|                          | Remarks: Information given is based on data obtained                             |  |
|                          | from similar substances.   |  |
| Effects on foetal devel- | Species: mouse   |  |
| opment                   | Application Route: inhalation (vapour)   |  |
|                          | Dose: 0, 900, 3000, 9000 ppm   |  |
|                          | Duration of Single Treatment: 10 d   |  |
|                          | Frequency of Treatment: 6 hr/day   |  |
|                          | General Toxicity Maternal: NOAEC: 900 ppm  |  |
|                          | Developmental Toxicity: NOAEC: 3,000 ppm   |  |
|                          | Symptoms: Skeletal malformations.  |  |
|                          | Method: OECD Test Guideline 414<br>GLP: yes                                      |  |
|                          | Remarks: Information given is based on data obtained                             |  |
|                          | from similar substances.   |  |
| Reproductive toxicity -  | Animal testing did not show any effects on fertility.                            |  |

Assessment Embryotoxicity classification not possible from current data.

# STOT - single exposure

Product:No data available

**Components:** 108-88-3:

| Exposure routes: | Target Organs:  | Assessment:           | Remarks: |
|------------------|-----------------|-----------------------|----------|
| Inhalation       | Central nervous | May cause drowsi-     |          |
|                  | system          | ness or dizziness.,   |          |
|                  |                 | The substance or      |          |
|                  |                 | mixture is classified |          |
|                  |                 | as specific target    |          |
|                  |                 | organ toxicant, sin-  |          |
|                  |                 | gle exposure, cate-   |          |
|                  |                 | gory 3 with narcotic  |          |

| effects. |  |  |
|----------|--|--|

| 64742-49-0:      |                           |  |          |
|------------------|---------------------------|--|----------|
| Exposure routes: | Target Organs:            | Assessment:  | Remarks: |
| Inhalation       | Central nervous<br>system | May cause drowsi-<br>ness or dizziness.,<br>The substance or<br>mixture is classified<br>as specific target<br>organ toxicant, sin-<br>gle exposure, cate-<br>gory 3 with narcotic<br>effects. |          |

# 64742-89-8:No data available

#### 68410-97-9:

## 67-64-1:

| Exposure routes: | Target Organs:  | Assessment:           | Remarks |
|------------------|-----------------|-----------------------|---------|
| Inhalation       | Central nervous | May cause drowsi-     |         |
|                  | system          | ness or dizziness.,   |         |
|                  |                 | The substance or      |         |
|                  |                 | mixture is classified |         |
|                  |                 | as specific target    |         |
|                  |                 | organ toxicant, sin-  |         |
|                  |                 | gle exposure, cate-   |         |
|                  |                 | gory 3 with narcotic  |         |
|                  |                 | effects.              |         |

## 111-76-2:No data available

| 1330-20-7:       |                    |                   |          |
|------------------|--------------------|-------------------|----------|
| Ex osure routes: | Target Organs:     | Assessment:       | Remarks: |
| Inhalation       | Respiratory system | Ma cause res ira- |          |

|  | tory irritation., The<br>substance or mix-<br>ture is classified as<br>specific target or-<br>gan toxicant, single<br>exposure, category<br>3 with respiratory<br>tract irritation. |
|--|---|
|--|---|

# 67-56-1:

| 07 50 1.         |                     |                        |                 |
|------------------|---------------------|------------------------|-----------------|
| Exposure routes: | Target Organs:      | Assessment:            | <b>Remarks:</b> |
|                  | Eyes, Central nerv- | Causes damage to       |                 |
|                  | ous system          | organs., The sub-      |                 |
|                  |                     | stance or mixture is   |                 |
|                  |                     | classified as specific |                 |
|                  |                     | target organ toxi-     |                 |
|                  |                     | cant, single expo-     |                 |
|                  |                     | sure, category 1.      |                 |
|                  |                     |                        |                 |

# 100-41-4:No data available

#### 142-82-5:

| Exposure routes: | Target Organs:  | Assessment:           | <b>Remarks:</b> |
|------------------|-----------------|-----------------------|-----------------|
| Inhalation       | Central nervous | May cause drowsi-     |                 |
|                  | system          | ness or dizziness.,   |                 |
|                  |                 | The substance or      |                 |
|                  |                 | mixture is classified |                 |
|                  |                 | as specific target    |                 |
|                  |                 | organ toxicant, sin-  |                 |
|                  |                 | gle exposure, cate-   |                 |
|                  |                 | gory 3 with narcotic  |                 |
|                  |                 | effects.              |                 |
|                  |                 |                       |                 |

# STOT - repeated exposure

# Product:No data available

# Components:

# 108-88-3:

| Exposure routes: | Target Organs:   | Assessment:           | Remarks: |
|------------------|------------------|-----------------------|----------|
| Inhalation       | Auditory system, | May cause damage      |          |
|                  | Eyes             | to organs through     |          |
|                  |                  | prolonged or re-      |          |
|                  |                  | peated exposure.,     |          |
|                  |                  | The substance or      |          |
|                  |                  | mixture is classified |          |
|                  |                  | as specific target    |          |

|  | organ toxicant, re-<br>peated exposure,<br>category 2. |
|--|--|
|--|--|

64742-49-0:No data available

64742-89-8:No data available

68410-97-9:No data available

67-64-1:No data available

111-76-2:No data available

#### 1330-20-7:

| Exposure routes: | Target Organs:                             | Assessment:   | Remarks: |
|------------------|--|---|----------|
|                  | Liver, Kidney, Cen-<br>tral nervous system | May cause damage<br>to organs through<br>prolonged or re-<br>peated exposure.,<br>The substance or<br>mixture is classified<br>as specific target<br>organ toxicant, re-<br>peated exposure,<br>category 2. |          |

## 67-56-1:No data available

100-41-4:

| Exposure routes: | Target Organs:  | Assessment:       | Remarks: |
|------------------|-----------------|-------------------|----------|
|                  | Auditory system | May cause damage  |          |
|                  |                 | to organs through |          |
|                  |                 | prolonged or re-  |          |
|                  |                 | peated exposure., |          |
|                  |                 | The substance or  |          |

| Category Z. |  | mixture is classified<br>as specific target<br>organ toxicant, re-<br>peated exposure,<br>category 2. |
|-------------|--|---|
|-------------|--|---|

#### 142-82-5:No data available

#### **Repeated dose toxicity**

#### **Components:**

#### 108-88-3:

Species: rat, male and female NOAEL: 300 Application Route: inhalation (vapour) Exposure time: 6, 12, or 18 mths Number of exposures: 6 h/d, 5 d/wk Dose: 0, 30, 100, 300 ppm Method: OECD Test Guideline 453

Repeated dose toxicity - : Causes skin irritation. Assessment

#### 64742-89-8:

Species: rat, male and female NOAEL: 1402 Application Route: inhalation (vapour) Test atmosphere: vapour Exposure time: 13 weeks Number of exposures: 6 hours/day, 5 days/week Dose: 322, 1402, 9869 mg/m3 GLP: yes Target Organs: Kidney Symptoms: Nasal and ocular discharge

#### 67-64-1:

Species: mouse, male NOAEL: 20000 Application Route: Oral Exposure time: 13 wk Number of exposures: daily Dose: 1250, 2500, 5000, 10000, 20000 Method: OECD Test Guideline 408 GLP: No data available

Species: mouse, female NOAEL: 20000 LOAEL: 50000 Application Route: Oral Exposure time: 13 wk Number of exposures: daily Dose: 2500, 5000, 10000, 20000, 5000 Method: OECD Test Guideline 408 GLP: No data available

Repeated dose toxicity -Causes mild skin irritation., Causes serious eye irrita-Assessmenttion.

## 111-76-2:

Species: rat NOAEL: 30 Application Route: Inhalation Exposure time: 14 wk Number of exposures: 6 h/d, 5 d/wk

#### 1330-20-7:

Species: rat, male and female NOAEL: 250 mg/kg Application Route: Oral Exposure time: 103 wk Number of exposures: 5 d/wk Dose: 0, 250 or 500 mg/kg Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

#### 67-56-1:

Species: mouse, male and female NOAEL: 1.3 mg/l Application Route: Inhalation Exposure time: 12 mths Number of exposures: Continuous Dose: 0, 0.013, 0.13, 1.3 mg/L

## 100-41-4:

Species: rat, male and female NOAEL: 75 mg/kg Application Route: Oral Exposure time: 28 d Dose: 75, 250 and 750 mg/kg bw/day Method: OECD Test Guideline 407 GLP: yes Symptoms: Increased kidney and liver weights

#### 142-82-5:

Species: rat, male NOAEL: 12470 mg/m3 Application Route: inhalation (vapour) Exposure time: 16 wks Number of exposures: 12 h/d, 7 d/wk Dose: 0, 12470 mg/3

Repeated dose toxicity - Causes skin irritation. Assessment

# **Aspiration toxicity**

## Product:

May be fatal if swallowed and enters airways.

# <u>Components:</u>

**108-88-3:** Aspiration Toxicity - Category 1

# 64742-49-0:

May be fatal if swallowed and enters airways.

# 64742-89-8:

May be fatal if swallowed and enters airways.

# 68410-97-9:

May be fatal if swallowed and enters airways.

## 111-76-2:

No aspiration toxicity classification

## 1330-20-7:

May be fatal if swallowed and enters airways.

**100-41-4:** May be fatal if swallowed and enters airways.

**142-82-5:** Aspiration Toxicity - Category 1

## **Further information**

## Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

# SECTION 12. ECOLOGICAL INFORMATION

| Ecotoxicity  |  |
|--|--|
| <u>Components:</u><br>108-88-3:                          |  |
| Toxicity to fish   | LC50 (Oncorhynchus mykiss (rainbow trout)): 5.5<br>mg/l<br>Exposure time: 96 h<br>Test Type: flow-through test |
| Toxicity to daphnia and other aquatic inverte-<br>brates | EC50 (Ceriodaphnia dubia): 3.78 mg/l<br>Exposure time: 48 h<br>Test Type: Renewal                              |
| Toxicity to algae  | EC50 (Chlorella vulgaris (Fresh water algae)): 134<br>mg/l<br>Exposure time: 3 h<br>Test Type: static test     |
| Toxicity to bacteria                                     | IC50 (Bacteria): 84 mg/l<br>Exposure time: 24 h<br>Test Type: Static   |
| Ecotoxicology Assessment<br>Acute aquatic toxicity       | Toxic to aquatic life.   |
| Chronic aquatic toxicity                                 | Toxic to aquatic life with long lasting effects.   |
| 64742-49-0:  |  |
| Toxicity to fish   | LC50 (Oncorhynchus mykiss (rainbow trout)): 10 mg/l<br>Exposure time: 96 h                                     |
| Toxicity to daphnia and other aquatic inverte-brates     | EC50 (Daphnia magna (Water flea)): 4.5 mg/l<br>Exposure time: 48 h   |
| Toxicity to algae  | EC50 (Pseudokirchneriella subcapitata (green algae)):<br>3.71 mg/l<br>Exposure time: 96 h                      |
| Ecotoxicology Assessment<br>Acute aquatic toxicity       | Toxic to aquatic life.   |
| Chronic aquatic toxicity                                 | Toxic to aquatic life with long lasting effects.   |
| 64742-89-8:  |  |
| Toxicity to fish   | LC50 (Oncorhynchus mykiss (rainbow trout)): 8.2<br>mg/l  |

|   | Exposure time: 96 h<br>Test Type: semi-static test  |
|---|---|
| Toxicity to daphnia and<br>other aquatic inverte-<br>brates | EC50 (Daphnia magna (Water flea)): 4.5 mg/l<br>Exposure time: 48 h<br>Test Type: Immobilization<br>Analytical monitoring: yes |
| Toxicity to algae   | EC50 (Pseudokirchneriella subcapitata (green algae)):<br>3.7 mg/l<br>Exposure time: 96 h<br>Test Type: static test            |
| Ecotoxicology Assessment<br>Acute aquatic toxicity          | Toxic to aquatic life.  |
| Chronic aquatic toxicity                                    | Toxic to aquatic life with long lasting effects.  |
| 68410-97-9:   |   |
| Toxicity to fish  | LC50 (Pimephales promelas (fathead minnow)): 8.2<br>mg/l<br>Exposure time: 96 h   |
| Toxicity to daphnia and<br>other aquatic inverte-<br>brates | EC50 (Daphnia magna (Water flea)): 4.5 mg/l<br>Exposure time: 48 h  |
| Toxicity to algae   | EC50 (Pseudokirchneriella subcapitata (green algae)):<br>3.1 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201   |
| Ecotoxicology Assessment<br>Acute aquatic toxicity          | Toxic to aquatic life.  |
| Chronic aquatic toxicity                                    | Toxic to aquatic life with long lasting effects.  |
| 67-64-1:  |   |
| Toxicity to fish  | LC50 (Oncorhynchus mykiss (rainbow trout)): 6,100<br>mg/l<br>Exposure time: 48 h  |
| Toxicity to daphnia and<br>other aquatic inverte-<br>brates | EC50 (Daphnia magna (Water flea)): 7,630 mg/l<br>Exposure time: 48 h<br>Test substance: Acetone                               |
| Toxicity to algae   | Remarks: No data available  |
| 111-76-2:   |   |
| Toxicity to fish  | LC50 (Oncorhynchus mykiss (rainbow trout)): 1,474   |

|  | mg/l<br>Exposure time: 96 h<br>Test Type: static test<br>Method: OECD Test Guideline 203<br>GLP: no  |
|--|--|
| Toxicity to daphnia and other aquatic inverte-<br>brates | EC50 (Daphnia magna (Water flea)): 1,800 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Method: OECD Test Guideline 202<br>GLP: no   |
| Toxicity to algae  | EC50 (Pseudokirchneriella subcapitata (green algae)):<br>911 mg/l<br>End point: Biomass<br>Exposure time: 72 h<br>Test Type: static test<br>Analytical monitoring: yes<br>Method: OECD Test Guideline 201<br>GLP: no |
| 1330-20-7:   |  |
| Toxicity to fish   | LC50 (Oncorhynchus mykiss (rainbow trout)): 2.6<br>mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203  |
| Toxicity to daphnia and other aquatic inverte-<br>brates | EC50 (Daphnia magna (Water flea)): 1 mg/l<br>Exposure time: 24 h<br>Test Type: static test<br>Method: OECD Test Guideline 202  |
| Toxicity to algae  | EC50 (Pseudokirchneriella subcapitata): 4.36 mg/l<br>End point: Growth rate<br>Exposure time: 73 h<br>Test Type: static test<br>Analytical monitoring: yes<br>Method: OECD Test Guideline 201<br>GLP: yes            |
| Ecotoxicology Assessment<br>Acute aquatic toxicity       | Toxic to aquatic life.   |
| Chronic aquatic toxicity                                 | Toxic to aquatic life with long lasting effects.   |
| 67-56-1:   |  |
| Toxicity to fish   | LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400<br>mg/l<br>Exposure time: 96 h<br>Test Type: flow-through test   |

| Toxicity to daphnia and other aquatic inverte-<br>brates | EC50 (Daphnia magna (Water flea)): > 10,000 mg/l<br>Exposure time: 48 h<br>Test Type: static test  |
|--|--|
| Toxicity to algae  | EC50 (Scenedesmus capricornutum (fresh water al-<br>gae)): 22,000 mg/l<br>End point: Growth rate<br>Exposure time: 96 h<br>Test Type: static test<br>Method: OECD Test Guideline 201 |
| Toxicity to bacteria                                     | IC50 (activated sludge): > 1,000 mg/l<br>End point: Growth rate<br>Exposure time: 3 h<br>Test Type: Static<br>Method: OECD Test Guideline 209  |
| 100-41-4:  |  |
| Toxicity to fish   | LC50 (Oncorhynchus mykiss (rainbow trout)): 4.2<br>mg/l<br>Exposure time: 96 h<br>Test Type: semi-static test  |
| Toxicity to daphnia and other aquatic inverte-<br>brates | EC50 (Daphnia magna (Water flea)): 1.8 mg/l<br>Exposure time: 48 h<br>Test Type: static test   |
| Toxicity to algae  | EC50 (Pseudokirchneriella subcapitata): 5.4 mg/l<br>Exposure time: 72 h<br>Test Type: static test  |
| Toxicity to bacteria                                     | Remarks: No data available   |
| Ecotoxicology Assessment<br>Acute aquatic toxicity       | Toxic to aquatic life.   |
| Chronic aquatic toxicity                                 | Toxic to aquatic life with long lasting effects.   |
| 142-82-5:  |  |
| Toxicity to fish   | LC50 (Carassius auratus (goldfish)): 4 mg/l<br>Exposure time: 24 h<br>Remarks: Very toxic to aquatic organisms, may cause<br>long-term adverse effects in the aquatic environment.   |
| Toxicity to daphnia and other aquatic inverte-<br>brates | EC50 (Daphnia magna (Water flea)): 1.5 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Remarks: Very toxic to aquatic organisms.  |

| Toxicity to algae                                  | Remarks: No data available   |
|--|--|
| Ecotoxicology Assessment<br>Acute aquatic toxicity | Very toxic to aquatic life.  |
| Chronic aquatic toxicity                           | Very toxic to aquatic life with long lasting effects.  |
| Persistence and degradab                           | ility  |
| <u>Components:</u><br>108-88-3:                    |  |
| Biodegradability                                   | Inoculum: Sewage<br>Biodegradation: 100 %<br>Remarks: Readily biodegradable  |
| 64742-49-0:  |  |
| Biodegradability                                   | aerobic<br>Inoculum: activated sludge<br>Concentration: 20 mg/l<br>Biodegradation: 74.30 %<br>Exposure time: 56 d<br>GLP: yes<br>Remarks: Inherently biodegradable.  |
| 64742-89-8:  |  |
| Biodegradability                                   | Concentration: 49.2 mg/l<br>Result: Readily biodegradable.<br>Biodegradation: 77 %<br>Testing period: 2 d<br>Exposure time: 28 d<br>GLP: yes   |
| 67-64-1:   |  |
| Biodegradability                                   | Remarks: Readily biodegradable   |
| <b>111-76-2:</b><br>Biodegradability               | aerobic<br>Inoculum: Activated sludge, domestic, adaption not<br>specified<br>Result: Readily biodegradable.<br>Biodegradation: 90.4 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 301B<br>GLP: no |
| 1330-20-7:   |  |
| Biodegradability                                   | Inoculum: activated sludge<br>Result: Readily biodegradable.   |

\_\_\_\_

Biodegradation: 72 % Exposure time: 20 d

| 67-56-1:                             |   |
|--------------------------------------|---|
| Biodegradability                     | aerobic<br>Result: Readily biodegradable.<br>Biodegradation: 72 %<br>Remarks: Readily biodegradable   |
| Biochemical Oxygen De-<br>mand (BOD) | 600 - 1,120 mg/g  |
| Chemical Oxygen De-<br>mand (COD)    | 1,420 mg/g  |
| BOD/COD                              | BOD: 600 - 1120COD: 1420  |
| Stability in water                   | Hydrolysis: 91 % at19 °C(72 h)<br>Remarks: Hydrolyses on contact with water.<br>Hydrolyses readily.   |
| 100-41-4:                            |   |
| Biodegradability                     | Inoculum: activated sludge<br>Concentration: 22 mg/l<br>Result: Readily biodegradable.<br>Biodegradation: 70 %<br>Exposure time: 28 d<br>GLP: yes |
| 142-82-5:                            |   |

Biodegradability Primary biodegradation Inoculum: activated sludge Concentration: 100 mg/l Biodegradation: 100 % Testing period: 2 d Exposure time: 25 d Remarks: Readily biodegradable

#### **Bioaccumulative potential**

#### Components:

**108-88-3:** Partition coefficient: n-octanol/water

log Pow: 2.73

#### 64742-49-0:

Partition coefficient: n-octanol/water

Remarks: No data available

| <b>64742-89-8:</b><br>Partition coefficient: n-<br>octanol/water | log Pow: 2.13 - 4.85 (25 °C)   |
|--|--|
| <b>67-64-1:</b><br>Partition coefficient: n-<br>octanol/water    | log Pow: -0.24   |
| <b>111-76-2:</b><br>Partition coefficient: n-<br>octanol/water   | log Pow: 0.83  |
| <b>1330-20-7:</b><br>Partition coefficient: n-<br>octanol/water  | log Pow: 2.77 - 3.15   |
| <b>67-56-1:</b><br>Bioaccumulation                               | Species: Cyprinus carpio (Carp)<br>Bioconcentration factor (BCF): 1.0<br>Exposure time: 72 d<br>Temperature: 20 °C<br>Concentration: 5 mg/l<br>Remarks: This substance is not considered to be very<br>persistent nor very bioaccumulating (vPvB).   |
| Partition coefficient: n-<br>octanol/water                       | log Pow: -0.77   |
| <b>100-41-4:</b><br>Partition coefficient: n-<br>octanol/water   | log Pow: 2.92  |
| Mobility in soil   |  |
| No data available  |  |
| Other adverse effects  |  |
| Product:   |  |
| Regulation<br>Remarks  | 40 CFR Protection of Environment; Part 82 Protection<br>of Stratospheric Ozone - CAA Section 602 Class I Sub-<br>stances<br>This product neither contains, nor was manufactured<br>with a Class I or Class II ODS as defined by the U.S.<br>Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A<br>+ B). |
| Additional ecological in-<br>formation                           | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with long lasting effects.  |

# Components:

## 100-41-4:

Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

# SECTION 13. DISPOSAL CONSIDERATIONS

#### **Disposal methods**

| Waste from residues    | Dispose of in accordance with all applicable local, state and federal regulations.  |
|------------------------|---|
| Contaminated packaging | Empty remaining contents.<br>Dispose of as unused product.<br>Do not re-use empty containers.<br>Do not burn, or use a cutting torch on, the empty<br>drum. |

## SECTION 14. TRANSPORT INFORMATION

**IATA (International Air Transport Association)**: UN1263, PAINT RELATED MATERIAL, 3, II, Flash Point:-20 °C(-4 °F)

**IMDG (International Maritime Dangerous Goods):** UN1263, PAINT RELATED MATERIAL, 3, II

DOT (Department of Transportation): UN1263, PAINT RELATED MATERIAL, 3, II

# SECTION 15. REGULATORY INFORMATION

| OSHA Hazards         | Flammable liquid, Carcinogen, Toxic by inhalation.,<br>Toxic by ingestion, Toxic by skin absorption, Moderate<br>skin irritant, Moderate eye irritant, Moderate<br>respiratory irritant, Teratogen, Reproductive hazard,<br>Mutagen |  |
|----------------------|---|--|
| WHMIS Classification | B2: Flammable liquid<br>D1A: Very Toxic Material Causing Immediate and<br>Serious Toxic Effects   |  |

D1B: Toxic Material Causing Immediate and Serious Toxic Effects D2A: Very Toxic Material Causing Other Toxic Effects

D2A: Very Toxic Material Causing Other Toxic Effects

D2B: Toxic Material Causing Other Toxic Effects

# **EPCRA - Emergency Planning and Community Right-to-Know Act**

## **CERCLA Reportable Quantity**

| Components    | CAS-No.   | Component | Calculated product |
|---------------|-----------|-----------|--------------------|
|               |           | RQ (lbs)  | RQ (lbs)           |
| Mixed xylenes | 1330-20-7 | 100       | 1859               |

## SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

| SARA 311/312 | Fire Hazard           |
|--------------|-----------------------|
| Hazards      | Chronic Health Hazard |
|              | Acute Health Hazard   |

## **Clean Air Act**

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

| ,        |                 |           |
|----------|-----------------|-----------|
| 108-88-3 | Toluene         | 38.7177 % |
| 67-56-1  | Methanol        | 2.9356 %  |
| 100-41-4 | Ethylbenzene    | 1.6696 %  |
| 107-21-1 | Ethylene glycol | 0.089 %   |
| 71-43-2  | Benzene         | 0.0679 %  |
| 110-54-3 | Hexane          | 0.0056 %  |
| 91-20-3  | Naphthalene     | 0.0005 %  |
| 98-82-8  | Cumene          | 0.0001 %  |
|          |                 |           |

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

| 108-88-3  | Toluene          | 38.7177 % |
|-----------|------------------|-----------|
| 67-64-1   | Acetone          | 15.6238 % |
| 111-76-2  | 2-Butoxy ethanol | 8.9142 %  |
| 1330-20-7 | Mixed xylenes    | 5.3787 %  |
| 67-56-1   | Methanol         | 2.9356 %  |
| 100-41-4  | Ethylbenzene     | 1.6696 %  |
| 110-82-7  | Cyclohexane      | 0.7124 %  |
| 107-21-1  | Ethylene glycol  | 0.089 %   |
| 71-43-2   | Benzene          | 0.0679 %  |
| 98-82-8   | Cumene           | 0.0001 %  |
|           |                  |           |

## Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

108-88-3 Toluene

| 1330-20-7                | Mixed xylenes                          | 5.3787 %                 |
|--------------------------|--|--------------------------|
| 100-41-4                 | Ethylbenzene                           | 1.6696 %                 |
| 110-82-7                 | Cyclohexane                            | 0.7124 %                 |
| 71-43-2                  | Benzene                                | 0.0679 %                 |
| 91-20-3                  | Naphthalene                            | 0.0005 %                 |
| The following Hazardous  | Chemicals are listed under the U.S.    | CleanWater Act, Section  |
| 311, Table 117.3:        |  |                          |
| 108-88-3                 | Toluene                                | 38.7177 %                |
| 1330-20-7                | Mixed xylenes                          | 5.3787 %                 |
| 100-41-4                 | Ethylbenzene                           | 1.6696 %                 |
| 110-82-7                 | Cyclohexane                            | 0.7124 %                 |
| 71-43-2                  | Benzene                                | 0.0679 %                 |
| 91-20-3                  | Naphthalene                            | 0.0005 %                 |
| This product contains th | e following toxic pollutants listed un | der the U.S. Clean Water |
| Act Section 307          |  |                          |
| 108-88-3                 | Toluene                                | 38.7177 %                |

| 108-88-3 | Toluene      | 38.7177 % |
|----------|--------------|-----------|
| 100-41-4 | Ethylbenzene | 1.6696 %  |

# **US State Regulations**

# Massachusetts Right To Know

| 108-88-3  | Toluene          | 30 - 50 % |
|-----------|------------------|-----------|
| 67-64-1   | Acetone          | 10 - 20 % |
| 111-76-2  | 2-Butoxy ethanol | 5 - 10 %  |
| 1330-20-7 | Mixed xylenes    | 5 - 10 %  |
| 67-56-1   | Methanol         | 1 - 5 %   |
| 100-41-4  | Ethylbenzene     | 1 - 5 %   |
| 71-43-2   | Benzene          | 0 - 0.1 % |

# Pennsylvania Right To Know

| 108-88-3   | Toluene  | 30 - 50 % |
|------------|--|-----------|
| 64742-49-0 | Naphtha (pet), hydrotreated lt                         | 0 - 30 %  |
| 64742-89-8 | Solvent naphtha (pet), It aliph.                       | 0 - 30 %  |
| 68410-97-9 | Distillates, pet, It dist hydrotreat process, low-boil | 0 - 30 %  |
| 67-64-1    | Acetone  | 10 - 20 % |
| 111-76-2   | 2-Butoxy ethanol                                       | 5 - 10 %  |
| 1330-20-7  | Mixed xylenes  | 5 - 10 %  |
| 67-56-1    | Methanol   | 1 - 5 %   |
| 100-41-4   | Ethylbenzene   | 1 - 5 %   |
| 110-82-7   | Cyclohexane  | 0.1 - 1 % |
| 107-21-1   | Ethylene glycol  | 0 - 0.1 % |
| 71-43-2    | Benzene  | 0 - 0.1 % |

# New Jersey Right To Know

| 108-88-3   | Toluene                          | 30 - 50 % |
|------------|----------------------------------|-----------|
| 64742-49-0 | Naphtha (pet), hydrotreated It   | 0 - 30 %  |
| 64742-89-8 | Solvent naphtha (pet), lt aliph. | 0 - 30 %  |

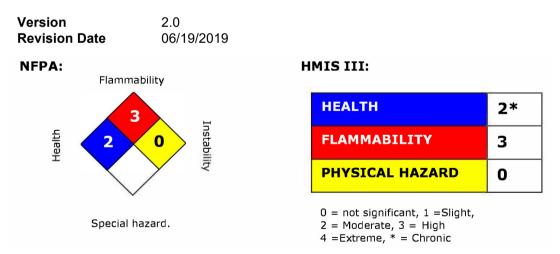
|  | 68410-97-9                     | Distillates, pet, lt dist hydrotreat<br>process, low-boil   | 0 - 30 %  |
|--|--------------------------------|---|-----------|
|  | 67-64-1                        | Acetone   | 10 - 20 % |
|  | 111-76-2                       | 2-Butoxy ethanol  | 5 - 10 %  |
|  | 1330-20-7                      | Mixed xylenes   | 5 - 10 %  |
|  | 67-56-1                        | Methanol  | 1 - 5 %   |
|  | 100-41-4                       | Ethylbenzene  | 1 - 5 %   |
| <b>California Prop 65</b><br>100-41-4<br>71-43-2<br>91-20-3<br>98-82-8 |                                | WARNING! This product contains a chemical known to<br>the State of California to cause cancer.<br>Ethylbenzene<br>Benzene<br>Naphthalene<br>Cumene<br>WARNING: This product contains a chemical known to<br>the State of California to cause birth defects or other<br>reproductive harm. |           |
|  | 108-88-3<br>67-56-1<br>71-43-2 | Toluene<br>Methanol<br>Benzene  |           |

# The components of this product are reported in the following inventories:

| Switzerland. New notified substances and declared preparations  | y (positive listing)<br>(The formulation<br>contains substances<br>listed on the Swiss<br>Inventory) |
|---|--|
| United States TSCA Inventory                                    | y (positive listing)<br>(On TSCA Invento-<br>ry)   |
| Canadian Domestic Substances List (DSL)                         | y (positive listing)<br>(All components of<br>this product are on<br>the Canadian DSL.)              |
| Australia Inventory of Chemical Substances (AICS)               | y (positive listing)<br>(On the inventory,<br>or in compliance<br>with the inventory)                |
| New Zealand. Inventory of Chemical Substances                   | n (Negative listing)<br>(Not in compliance<br>with the inventory)                                    |
| Japan. ENCS - Existing and New Chemical<br>Substances Inventory | n (Negative listing)<br>(Not in compliance<br>with the inventory)                                    |

| Japan. ISHL - Inventory of Chemical Substances<br>(METI)              | n (Negative listing)<br>(Not in compliance<br>with the inventory)                     |
|---|---|
| Korea. Korean Existing Chemicals Inventory (KECI)                     | y (positive listing)<br>(On the inventory,<br>or in compliance<br>with the inventory) |
| Philippines Inventory of Chemicals and Chemical<br>Substances (PICCS) | y (positive listing)<br>(On the inventory,<br>or in compliance<br>with the inventory) |
| China. Inventory of Existing Chemical Substances in<br>China (IECSC)  | y (positive listing)<br>(On the inventory,<br>or in compliance<br>with the inventory) |

## **SECTION 16. OTHER INFORMATION**



The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

# Legecy MSDS:

00000083804

## Material number:

616863, 616766

| Kass an la | and to abbundations and an                                       |             | d in the sefety data sheet  |
|------------|--|-------------|---|
|            | gend to abbreviations and ac                                     |             |   |
| ACGIH      | American Conference of Gov-<br>ernment Industrial Hygienists     | LD50        | Lethal Dose 50%   |
| AICS       | Australia, Inventory of Chem-<br>ical Substances                 | LOAEL       | Lowest Observed Adverse Effect<br>Level   |
| DSL        | Canada, Domestic Substanc-<br>es List                            | NFPA        | National Fire Protection Agency   |
| NDSL       | Canada, Non-Domestic Sub-<br>stances List                        | NIOSH       | National Institute for Occupational<br>Safety & Health                                    |
| CNS        | Central Nervous System   | NTP         | National Toxicology Program   |
| CAS        | Chemical Abstract Service  | NZIoC       | New Zealand Inventory of Chemicals  |
| EC50       | Effective Concentration  | NOAEL       | No Observable Adverse Effect Level  |
| EC50       | Effective Concentration 50%                                      | NOEC        | No Observed Effect Concentration  |
| EGEST      | EOSCA Generic Exposure<br>Scenario Tool                          | OSHA        | Occupational Safety & Health Admin-<br>istration  |
| EOSCA      | European Oilfield Specialty<br>Chemicals Association             | PEL         | Permissible Exposure Limit  |
| EINECS     | European Inventory of Exist-<br>ing Chemical Substances          | PICCS       | Philipines Inventory of Commercial<br>Chemical Substances                                 |
| MAK        | Germany Maximum Concen-<br>tration Values                        | PRNT        | Presumed Not Toxic  |
| GHS        | Globally Harmonized System                                       | RCRA        | Resource Conservation Recovery Act  |
| >=         | Greater Than or Equal To   | STEL        | Short-term Exposure Limit   |
| IC50       | Inhibition Concentration 50%                                     | SARA        | Superfund Amendments and Reau-<br>thorization Act.  |
| IARC       | International Agency for Re-<br>search on Cancer                 | TLV         | Threshold Limit Value   |
| IECSC      | Inventory of Existing Chemi-<br>cal Substances in China          | TWA         | Time Weighted Average   |
| ENCS       | Japan, Inventory of Existing<br>and New Chemical Substanc-<br>es | TSCA        | Toxic Substance Control Act   |
| KECI       | Korea, Existing Chemical In-<br>ventory                          | UVCB        | Unknown or Variable Compositon,<br>Complex Reaction Products, and<br>Biological Materials |
| <=         | Less Than or Equal To  | WHMIS       | Workplace Hazardous Materials In-<br>formation System                                     |
| LC50       |  | Lethal Conc | entration 50%   |