

## 1. Identification

**Product identifier** 866-0979 CHROMA-CHEM® LEAD FREE MEDIUM ORANGE YX

**Other means of identification**

**SAP Specification** 000000139690

**Recommended use** Non-aqueous colorant

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Company** Chromaflo Technologies Corporation  
2600 Michigan Avenue  
Ashtabula, OH, USA 44005-0816

**Canadian facility** Chromaflo Technologies Canada  
235 Orenda Road  
Brampton, Ontario, Canada L6T-1E6

**US telephone** 440-997-5137

**Canadian telephone** 905-451-3810

**NA: EMERGENCY # (3E)** 866-519-4752

**GLOBAL: EMERG. # (3E)** (+1) 760-476-3962

**3E CONTRACT #** 12154

**3E ACCESS CODE** 334294

**CANADA: CANUTEC** 613-996-6666

**EMERGENCY NUMBER**

**Product Regulatory Services** ehs\_americas@chromaflo.com

## 2. Hazard(s) identification

|                             |   |                                     |
|-----------------------------|---|-------------------------------------|
| <b>Physical hazards</b>     | Flammable liquids                                 | Category 3                          |
| <b>Health hazards</b>       | Skin corrosion/irritation                         | Category 2                          |
|                             | Serious eye damage/eye irritation                 | Category 2                          |
|                             | Carcinogenicity                                   | Category 2                          |
|                             | Reproductive toxicity                             | Category 2                          |
|                             | Specific target organ toxicity, repeated exposure | Category 1 (central nervous system) |
| <b>OSHA defined hazards</b> | Not classified.                                   |                                     |

**Label elements**



**Signal word** Danger

**Hazard statement** Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs (central nervous system) through prolonged or repeated exposure.

## Precautionary statement

### Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

### Response

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.

### Storage

Store in a well-ventilated place. Keep cool. Store locked up.

### Disposal

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

### Hazard(s) not otherwise classified (HNOC)

None known.

### Supplemental information

If product is in liquid or paste form, hazards related to dust are not considered significant. But product may contain substances that could be potential hazards if caused to become airborne due to abrasive processes.

## 3. Composition/information on ingredients

### Mixtures

| Chemical name  | Common name and synonyms | CAS number | %        |
|--|--------------------------|------------|----------|
| Solvent naphtha (petroleum), light aliph.; Low boiling point naphtha |                          | 64742-89-8 | 2.5 - 10 |
| Solvent Naphtha (petroleum), medium aliphatic                        |                          | 64742-88-7 | 2.5 - 10 |
| Stoddard solvent; Low boiling point naphtha - unspecified            |                          | 8052-41-3  | 2.5 - 10 |
| 1,2,4-Trimethylbenzene   |                          | 95-63-6    | 1 - 2.5  |
| 2-methylpropan-1-ol; iso-butanol                                     |                          | 78-83-1    | 1 - 2.5  |
| butan-1-ol; n-butanol  |                          | 71-36-3    | 1 - 2.5  |
| isobutyl acetate   |                          | 110-19-0   | 1 - 2.5  |
| n-butyl acetate  |                          | 123-86-4   | 1 - 2.5  |
| Xylene   |                          | 1330-20-7  | 1 - 2.5  |
| Ethyl benzene  |                          | 100-41-4   | 0.1 - 1  |
| Other components below reportable levels                             |                          |            | 60 - 80  |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

### Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

### Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

### Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

### Ingestion

Rinse mouth. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

Narcosis. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

### Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

### General information

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

|  |  |
|--|--|
| <b>Suitable extinguishing media</b>                                  | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).   |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.   |
| <b>Specific hazards arising from the chemical</b>                    | Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.  |
| <b>Fire fighting equipment/instructions</b>                          | In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.   |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.   |
| <b>General fire hazards</b>  | Flammable liquid and vapor.  |

## 6. Accidental release measures

|  |   |
|--|---|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.   |
| <b>Methods and materials for containment and cleaning up</b>               | <p>Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.</p> <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.</p> <p>Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.</p> |
| <b>Environmental precautions</b>   | Avoid discharge into drains, water courses or onto the ground.  |

## 7. Handling and storage

|   |  |
|---|--|
| <b>Precautions for safe handling</b>                                | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).  |

## 8. Exposure controls/personal protection

### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components  | Type | Value                            |
|---|------|----------------------------------|
| 2-methylpropan-1-ol;<br>iso-butanol (CAS 78-83-1) | PEL  | 300 mg/m <sup>3</sup>            |
| butan-1-ol; n-butanol (CAS 71-36-3)               | PEL  | 100 ppm<br>300 mg/m <sup>3</sup> |

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components  | Type | Value                           |
|---|------|---------------------------------|
| Ethyl benzene (CAS 100-41-4)  | PEL  | 100 ppm<br>435 mg/m3            |
| isobutyl acetate (CAS 110-19-0)   | PEL  | 100 ppm<br>700 mg/m3            |
| n-butyl acetate (CAS 123-86-4)  | PEL  | 150 ppm<br>710 mg/m3            |
| Solvent naphtha (petroleum), light aliph.; Low boiling point naphtha (CAS 64742-89-8) | PEL  | 150 ppm<br>400 mg/m3            |
| Stoddard solvent; Low boiling point naphtha - unspecified (CAS 8052-41-3)             | PEL  | 100 ppm<br>2900 mg/m3           |
| Xylene (CAS 1330-20-7)  | PEL  | 500 ppm<br>435 mg/m3<br>100 ppm |

**US. ACGIH Threshold Limit Values**

| Components  | Type | Value     | Form         |
|---|------|-----------|--------------|
| 1,2,4-Trimethylbenzene (CAS 95-63-6)                                      | TWA  | 25 ppm    |              |
| 2-methylpropan-1-ol; iso-butanol (CAS 78-83-1)                            | TWA  | 50 ppm    |              |
| butan-1-ol; n-butanol (CAS 71-36-3)                                       | TWA  | 20 ppm    |              |
| Ethyl benzene (CAS 100-41-4)  | TWA  | 20 ppm    |              |
| isobutyl acetate (CAS 110-19-0)   | STEL | 150 ppm   |              |
|   | TWA  | 50 ppm    |              |
| n-butyl acetate (CAS 123-86-4)  | STEL | 150 ppm   |              |
|   | TWA  | 50 ppm    |              |
| Solvent Naphtha (petroleum), medium aliphatic (CAS 64742-88-7)            | TWA  | 200 mg/m3 | Non-aerosol. |
| Stoddard solvent; Low boiling point naphtha - unspecified (CAS 8052-41-3) | TWA  | 100 ppm   |              |
| Xylene (CAS 1330-20-7)  | STEL | 150 ppm   |              |
|   | TWA  | 100 ppm   |              |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components                                     | Type    | Value     |
|--|---------|-----------|
| 1,2,4-Trimethylbenzene (CAS 95-63-6)           | TWA     | 125 mg/m3 |
|  |         | 25 ppm    |
| 2-methylpropan-1-ol; iso-butanol (CAS 78-83-1) | TWA     | 150 mg/m3 |
|  |         | 50 ppm    |
| butan-1-ol; n-butanol (CAS 71-36-3)            | Ceiling | 150 mg/m3 |
|  |         | 50 ppm    |
| Ethyl benzene (CAS 100-41-4)                   | STEL    | 545 mg/m3 |
|  |         | 125 ppm   |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components  | Type    | Value      |
|---|---------|------------|
| isobutyl acetate (CAS 110-19-0)   | TWA     | 435 mg/m3  |
|   |         | 100 ppm    |
|   | TWA     | 700 mg/m3  |
| n-butyl acetate (CAS 123-86-4)  |         | 150 ppm    |
|   | STEL    | 950 mg/m3  |
|   |         | 200 ppm    |
| Solvent naphtha (petroleum), light aliph.; Low boiling point naphtha (CAS 64742-89-8) | TWA     | 710 mg/m3  |
|   |         | 150 ppm    |
|   | TWA     | 400 mg/m3  |
| Solvent Naphtha (petroleum), medium aliphatic (CAS 64742-88-7)                        |         | 100 ppm    |
|   | TWA     | 100 mg/m3  |
|   |         |            |
| Stoddard solvent; Low boiling point naphtha - unspecified (CAS 8052-41-3)             | Ceiling | 1800 mg/m3 |
|   |         |            |
|   | TWA     | 350 mg/m3  |

**Biological limit values**
**ACGIH Biological Exposure Indices**

| Components                   | Value    | Determinant                                   | Specimen            | Sampling Time |
|------------------------------|----------|---|---------------------|---------------|
| Ethyl benzene (CAS 100-41-4) | 0.15 g/g | Sum of mandelic acid and phenylglyoxylic acid | Creatinine in urine | *             |
| Xylene (CAS 1330-20-7)       | 1.5 g/g  | Methylhippuric acids                          | Creatinine in urine | *             |

\* - For sampling details, please see the source document.

**Exposure guidelines** Occupational Exposure Limits are not relevant to the current physical form of the product.

**US - California OELs: Skin designation**

butan-1-ol; n-butanol (CAS 71-36-3)

Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**

butan-1-ol; n-butanol (CAS 71-36-3)

Skin designation applies.

**US - Tennessee OELs: Skin designation**

butan-1-ol; n-butanol (CAS 71-36-3)

Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation**

Solvent Naphtha (petroleum), medium aliphatic (CAS 64742-88-7)

Can be absorbed through the skin.

**US NIOSH Pocket Guide to Chemical Hazards: Skin designation**

butan-1-ol; n-butanol (CAS 71-36-3)

Can be absorbed through the skin.

**Appropriate engineering controls**

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

**Individual protection measures, such as personal protective equipment**
**Eye/face protection**

Chemical respirator with organic vapor cartridge and full facepiece.

**Skin protection**
**Hand protection**

Wear appropriate chemical resistant gloves.

**Other**

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

|                                       |  |
|---------------------------------------|--|
| <b>Respiratory protection</b>         | If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to vapor/mist at levels exceeding the exposure limits. |
| <b>Thermal hazards</b>                | Wear appropriate thermal protective clothing, when necessary.  |
| <b>General hygiene considerations</b> | Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.  |

## 9. Physical and chemical properties

### Appearance

|  |                            |
|--|----------------------------|
| <b>Physical state</b>                          | Liquid.                    |
| <b>Form</b>                                    | Liquid. Paste.             |
| <b>Color</b>                                   | Orange.                    |
| <b>Odor</b>                                    | Petroleum distillate odor. |
| <b>Odor threshold</b>                          | Not available.             |
| <b>pH</b>                                      | Not available.             |
| <b>Melting point/freezing point</b>            | Not available.             |
| <b>Initial boiling point and boiling range</b> | Not available.             |
| <b>Flash point</b>                             | 82.0 °F (27.8 °C)          |
| <b>Evaporation rate</b>                        | Not available.             |
| <b>Flammability (solid, gas)</b>               | Not applicable.            |

### Upper/lower flammability or explosive limits

|  |                |
|--|----------------|
| <b>Explosive limit - lower (%)</b>             | Not available. |
| <b>Explosive limit - upper (%)</b>             | Not available. |
| <b>Vapor pressure</b>                          | Not available. |
| <b>Vapor density</b>                           | Not available. |
| <b>Relative density</b>                        | 1              |
| <b>Solubility(ies)</b>                         |                |
| <b>Solubility (water)</b>                      | Not available. |
| <b>Partition coefficient (n-octanol/water)</b> | Not available. |
| <b>Auto-ignition temperature</b>               | Not available. |
| <b>Decomposition temperature</b>               | Not available. |
| <b>Viscosity</b>                               | Not available. |
| <b>Other information</b>                       |                |
| <b>Explosive properties</b>                    | Not explosive. |
| <b>Oxidizing properties</b>                    | Not oxidizing. |

## 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport.  |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.  |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.   |
| <b>Conditions to avoid</b>                | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| <b>Incompatible materials</b>             | Strong acids. Strong oxidizing agents. Halogens.   |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.   |

## 11. Toxicological information

### Information on likely routes of exposure

|                   |  |
|-------------------|--|
| <b>Inhalation</b> | May cause damage to organs through prolonged or repeated exposure by inhalation. |
|-------------------|--|

|   |   |
|---|---|
| <b>Skin contact</b>   | Causes skin irritation.   |
| <b>Eye contact</b>  | Causes serious eye irritation.  |
| <b>Ingestion</b>  | Expected to be a low ingestion hazard.  |
| <b>Symptoms related to the physical, chemical and toxicological characteristics</b> | Narcosis. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. |

#### Information on toxicological effects

**Acute toxicity** Not known.

| Components  | Species | Test Results      |
|---|---------|-------------------|
| 1,2,4-Trimethylbenzene (CAS 95-63-6)  |         |                   |
| <b><u>Acute</u></b>   |         |                   |
| <b>Dermal</b>   |         |                   |
| LD50  | Rabbit  | > 3160 mg/kg      |
| <b>Oral</b>   |         |                   |
| LD50  | Rat     | 6 g/kg            |
| 2-methylpropan-1-ol; iso-butanol (CAS 78-83-1)  |         |                   |
| <b><u>Acute</u></b>   |         |                   |
| <b>Dermal</b>   |         |                   |
| LD50  | Rabbit  | 3392 mg/kg        |
| <b>Inhalation</b>   |         |                   |
| LC50  | Rat     | 8000 ppm, 4 Hours |
| <b>Oral</b>   |         |                   |
| LD50  | Rat     | 2.46 g/kg         |
| butan-1-ol; n-butanol (CAS 71-36-3)   |         |                   |
| <b><u>Acute</u></b>   |         |                   |
| <b>Dermal</b>   |         |                   |
| LD50  | Rabbit  | 3400 mg/kg        |
| <b>Oral</b>   |         |                   |
| LD50  | Rat     | 790 mg/kg         |
| Ethyl benzene (CAS 100-41-4)  |         |                   |
| <b><u>Acute</u></b>   |         |                   |
| <b>Oral</b>   |         |                   |
| LD50  | Rat     | 3500 mg/kg        |
| n-butyl acetate (CAS 123-86-4)  |         |                   |
| <b><u>Acute</u></b>   |         |                   |
| <b>Oral</b>   |         |                   |
| LD50  | Rat     | 14000 mg/kg       |
| Solvent naphtha (petroleum), light aliph.; Low boiling point naphtha (CAS 64742-89-8) |         |                   |
| <b><u>Acute</u></b>   |         |                   |
| <b>Inhalation</b>   |         |                   |
| LC50  | Rat     | 61 mg/l, 4 Hours  |
| Xylene (CAS 1330-20-7)  |         |                   |
| <b><u>Acute</u></b>   |         |                   |
| <b>Oral</b>   |         |                   |
| LD50  | Rat     | 3523 - 8600 mg/kg |

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

#### Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

|   |  |
|---|--|
| <b>Skin sensitization</b>   | This product is not expected to cause skin sensitization.  |
| <b>Germ cell mutagenicity</b>   | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.   |
| <b>Carcinogenicity</b>  | Suspected of causing cancer.   |
| <b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>             |  |
| Ethyl benzene (CAS 100-41-4)  | 2B Possibly carcinogenic to humans.  |
| Stoddard solvent; Low boiling point naphtha - unspecified (CAS 8052-41-3) | 3 Not classifiable as to carcinogenicity to humans.  |
| Xylene (CAS 1330-20-7)  | 3 Not classifiable as to carcinogenicity to humans.  |
| <b>US. National Toxicology Program (NTP) Report on Carcinogens</b>        |  |
| Not listed.   |  |
| <b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b> |  |
| Not regulated.  |  |
| <b>Reproductive toxicity</b>  | Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. Suspected of damaging fertility or the unborn child. |
| <b>Specific target organ toxicity - single exposure</b>                   | Not classified.  |
| <b>Specific target organ toxicity - repeated exposure</b>                 | Causes damage to organs (central nervous system) through prolonged or repeated exposure.   |
| <b>Aspiration hazard</b>  | Not an aspiration hazard.  |
| <b>Chronic effects</b>  | Causes damage to organs through prolonged or repeated exposure. Prolonged exposure may cause chronic effects.  |

## 12. Ecological information

|                    |  |
|--------------------|--|
| <b>Ecotoxicity</b> | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |
|--------------------|--|

| Product   | Species |                                      | Test Results                     |
|---|---------|--------------------------------------|----------------------------------|
| 866-0979 CHROMA-CHEM® LEAD FREE MEDIUM ORANGE   | YX      |                                      |                                  |
| Aquatic   |         |                                      |                                  |
| Crustacea   | EC50    | Daphnia                              | 47.7227 mg/l, 48 hours estimated |
| Fish  | LC50    | Fish                                 | 94.8019 mg/l, 96 hours estimated |
| Components  | Species |                                      | Test Results                     |
| 1,2,4-Trimethylbenzene (CAS 95-63-6)  |         |                                      |                                  |
| Aquatic   |         |                                      |                                  |
| Fish  | LC50    | Fathead minnow (Pimephales promelas) | 7.19 - 8.28 mg/l, 96 hours       |
| 2-methylpropan-1-ol; iso-butanol (CAS 78-83-1)  |         |                                      |                                  |
| Aquatic   |         |                                      |                                  |
| Crustacea   | EC50    | Water flea (Daphnia pulex)           | 950 - 1200 mg/l, 48 hours        |
| Fish  | LC50    | Bleak (Alburnus alburnus)            | 1000 - 3000 mg/l, 96 hours       |
| butan-1-ol; n-butanol (CAS 71-36-3)   |         |                                      |                                  |
| Aquatic   |         |                                      |                                  |
| Crustacea   | EC50    | Water flea (Daphnia magna)           | 1897 - 2072 mg/l, 48 hours       |
| Fish  | LC50    | Bluegill (Lepomis macrochirus)       | 100 - 500 mg/l, 96 hours         |
| Ethyl benzene (CAS 100-41-4)  |         |                                      |                                  |
| Aquatic   |         |                                      |                                  |
| Crustacea   | EC50    | Water flea (Daphnia magna)           | 1.37 - 4.4 mg/l, 48 hours        |
| Fish  | LC50    | Fathead minnow (Pimephales promelas) | 7.5 - 11 mg/l, 96 hours          |
| n-butyl acetate (CAS 123-86-4)  |         |                                      |                                  |
| Aquatic   |         |                                      |                                  |
| Fish  | LC50    | Fathead minnow (Pimephales promelas) | 17 - 19 mg/l, 96 hours           |
| Solvent naphtha (petroleum), light aliph.; Low boiling point naphtha (CAS 64742-89-8) |         |                                      |                                  |
| Aquatic   |         |                                      |                                  |
| Crustacea   | EC50    | Water flea (Daphnia pulex)           | 2.7 - 5.1 mg/l, 48 hours         |



| Components             |      | Species  | Test Results                 |
|------------------------|------|--|------------------------------|
| Fish                   | LC50 | Rainbow trout,donaldson trout<br>(Oncorhynchus mykiss) | 8.8 mg/l, 96 hours           |
|                        |      |  | 8.8 mg/l, 96 hours           |
| Xylene (CAS 1330-20-7) |      |  |                              |
| <b>Aquatic</b>         |      |  |                              |
| Fish                   | LC50 | Bluegill (Lepomis macrochirus)                         | 7.711 - 9.591 mg/l, 96 hours |

\* Estimates for product may be based on additional component data not shown.

## Persistence and degradability

### Bioaccumulative potential

#### Partition coefficient n-octanol / water (log Kow)

|   |             |
|---|-------------|
| 2-methylpropan-1-ol; iso-butanol                          | 0.76        |
| butan-1-ol; n-butanol                                     | 0.88        |
| Ethyl benzene   | 3.15        |
| isobutyl acetate  | 1.78        |
| n-butyl acetate   | 1.78        |
| Stoddard solvent; Low boiling point naphtha - unspecified | 3.16 - 7.15 |
| Xylene  | 3.12 - 3.2  |

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

### DOT

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN1263  |
| <b>UN proper shipping name</b>      | Paint related material  |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 3   |
| <b>Subsidiary risk</b>              | -   |
| <b>Label(s)</b>                     | 3   |
| <b>Packing group</b>                | III   |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Special provisions</b>           | B1, B52, IB3, T2, TP1, TP29   |
| <b>Packaging exceptions</b>         | 150   |
| <b>Packaging non bulk</b>           | 173   |
| <b>Packaging bulk</b>               | 242   |

### DOT BULK

#### BULK

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN1263  |
| <b>UN proper shipping name</b>      | Paint related material  |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 3   |
| <b>Label(s)</b>                     | 3   |
| <b>Packing group</b>                | III   |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |

|                      |                             |
|----------------------|-----------------------------|
| Special provisions   | B1, B52, IB3, T2, TP1, TP29 |
| Packaging exceptions | 150                         |
| Packaging non bulk   | 173                         |
| Packaging bulk       | 242                         |

#### IATA

|                              |   |
|------------------------------|---|
| UN number                    | UN1263  |
| UN proper shipping name      | Paint related material  |
| Transport hazard class(es)   |   |
| Class                        | 3   |
| Subsidiary risk              | -   |
| Packing group                | III   |
| Environmental hazards        | No.   |
| ERG Code                     | 3L  |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Other information            |   |
| Passenger and cargo aircraft | Allowed with restrictions.  |
| Cargo aircraft only          | Allowed with restrictions.  |

#### IMDG

|                              |   |
|------------------------------|---|
| UN number                    | UN1263  |
| UN proper shipping name      | PAINT RELATED MATERIAL  |
| Transport hazard class(es)   |   |
| Class                        | 3   |
| Subsidiary risk              | -   |
| Packing group                | III   |
| Environmental hazards        |   |
| Marine pollutant             | No.   |
| EmS                          | F-E, S-E  |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not established.

DOT; DOT Bulk packaging type



IATA; IMDG



## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the US Hazard Communication Standard and the Canadian Hazardous Products Regulation.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

|  |         |
|--|---------|
| 2-methylpropan-1-ol; iso-butanol (CAS 78-83-1) | Listed. |
| butan-1-ol; n-butanol (CAS 71-36-3)            | Listed. |
| Ethyl benzene (CAS 100-41-4)                   | Listed. |
| isobutyl acetate (CAS 110-19-0)                | Listed. |
| n-butyl acetate (CAS 123-86-4)                 | Listed. |
| Xylene (CAS 1330-20-7)                         | Listed. |

**SARA 304 Emergency release notification**

Not regulated.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

|                          |                        |
|--------------------------|------------------------|
| <b>Hazard categories</b> | Immediate Hazard - Yes |
|                          | Delayed Hazard - Yes   |
|                          | Fire Hazard - Yes      |
|                          | Pressure Hazard - No   |
|                          | Reactivity Hazard - No |

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical**      No

**SARA 313 (TRI reporting)**

| Chemical name          | CAS number | % by wt. |
|------------------------|------------|----------|
| 1,2,4-TRIMETHYLBENZENE | 95-63-6    | 1 - 2.5  |
| ETHYLBENZENE           | 100-41-4   | 0.1 - 1  |
| N-BUTYL ALCOHOL        | 71-36-3    | 1 - 2.5  |
| Xylene (mixed isomers) | 1330-20-7  | 1 - 2.5  |

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Ethyl benzene (CAS 100-41-4)

Xylene (CAS 1330-20-7)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)**      Not regulated.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

|  |              |
|--|--------------|
| 2-methylpropan-1-ol; iso-butanol (CAS 78-83-1) | Low priority |
| butan-1-ol; n-butanol (CAS 71-36-3)            | Low priority |
| isobutyl acetate (CAS 110-19-0)                | Low priority |
| n-butyl acetate (CAS 123-86-4)                 | Low priority |

**US state regulations**      WARNING: This product contains a chemical known to the State of California to cause cancer.

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

Ethyl benzene (CAS 100-41-4)

Listed: June 11, 2004

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

1,2,4-Trimethylbenzene (CAS 95-63-6)  
 Ethyl benzene (CAS 100-41-4)  
 Solvent naphtha (petroleum), light aliph.; Low boiling point naphtha (CAS 64742-89-8)  
 Solvent Naphtha (petroleum), medium aliphatic (CAS 64742-88-7)  
 Stoddard solvent; Low boiling point naphtha - unspecified (CAS 8052-41-3)  
 Xylene (CAS 1330-20-7)

**International Inventories**

| Country(s) or region | Inventory name   | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia            | Australian Inventory of Chemical Substances (AICS)         | Yes                    |
| Canada               | Domestic Substances List (DSL)                             | Yes                    |
| Canada               | Non-Domestic Substances List (NDSL)                        | No                     |
| China                | Inventory of Existing Chemical Substances in China (IECSC) | Yes                    |

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand                 | New Zealand Inventory  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |
| Taiwan                      | Taiwan Toxic Chemicals Substances Control Act                          | No                     |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

**Issue date** 05-19-2015

**Revision date** 05-09-2017

**Version #** 05

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**Revision information** This document has undergone significant changes and should be reviewed in its entirety.