



**Precautionary statement(s)**

Wash hands thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid breathing vapors.

IF ON SKIN: Wash with plenty of water.

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

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Call a POISON CENTER or doctor if you feel unwell.

**SECTION 3: Composition/information on ingredients****Mixtures****Hazardous components****1. 2-ETHYLHEXANOIC ACID**

Concentration 45 - 50 %

CAS no. 149-57-5

**2. POTASSIUM HYDROXIDE**

Concentration 20 - 25 %

CAS no. 1310-58-3

**3. TOLYLTRIAZOLE**

Concentration 5 - 10 %

CAS no. 29385-43-1

**4. SODIUM NITRITE**

Concentration < 2 %

CAS no. 29385-43-1

\* All percentages are by weight.

**SECTION 4: First-aid measures****Description of necessary first-aid measures****If inhaled**

Move to fresh air. If breathing is difficult, administer oxygen. Get medical attention.

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<b>In case of skin contact</b>	Wash affected area immediately with soap and water. If clothing is contaminated, remove and launder before reuse.
<b>In case of eye contact</b>	Immediately flush with water for at least 15 minutes or until the chemical is removed. Get medical attention!
<b>If swallowed</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical attention.

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

<b>Inhalation:</b>	May cause physical discomfort to the respiratory tract.
<b>Eyes:</b>	Causes severe irritation (tears, blurred vision and redness) May result in permanent eye damage.
<b>Ingestion:</b>	May cause nausea and vomiting. May cause irritation to the mouth, throat and stomach.
<b>Skin:</b>	Prolonged contact may cause mild skin irritation.
<b>Target:</b>	Not Determined.
<b>Potential Carcinogens:</b>	None.

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**SECTION 5: Fire-fighting measures****Suitable extinguishing media**

Carbon dioxide, dry chemical, foam or water spray.

**Specific hazards arising from the chemical**

No data.

**Special protective actions for fire-fighters**

Vapors and fumes may be irritating and toxic. Firefighters should wear self-contained breathing apparatus and full fire-fighting turnout gear.

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**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Wear appropriate personal protective equipment as specified in Section 8.

**Environmental precautions**

Minimize use of water to prevent environmental contamination. Do not flush to sewer or drain.

**Methods and materials for containment and cleaning up**

If possible, stop further leakage of the material. Contain spilled material by diking with non-flammable diking materials. Neutralize spilled material. Pump spilled liquid into disposal container.

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**SECTION 7: Handling and storage****Precautions for safe handling**

Use good industrial practices when handling. Avoid eye, skin, and clothing contact. Do not inhale mist or vapors. Do not taste or swallow. Use only with adequate ventilation.

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**Conditions for safe storage, including any incompatibilities**

Keep container closed when not in use. Avoid elevated and freezing temperatures.

**SECTION 8: Exposure controls/personal protection****Control parameters**

Potassium Hydroxide (1310-58-3)  
 OSHA TWA, 2 mg/m<sup>3</sup>  
 ACGIH TWA, 2 mg/m<sup>3</sup>

2-Ethylhexanoic Acid (149-57-5)  
 ACGIH TWA, 5 mg/m<sup>3</sup>

**Individual protection measures, such as personal protective equipment (PPE)**

**General Hygiene:** Discard contaminated gloves after use. Have eye-wash facilities in the immediate vicinity. Work in adequately ventilated area. Do not breathe vapors or mist. Minimize any contact with any chemical.

**Respiratory Protection:** No special respiratory equipment is needed.

**Eye/Face Protection:** Wear safety glasses when handling this material.

**Skin Protection:** Wear nitrile or latex gloves. Wear protective clothing.

**Engineering Controls:** Work in well ventilated areas. Do not breathe vapors or mists.

**Other Protective Controls:** Eye wash station and safety shower should be available in immediate work area. Select additional protective equipment based upon potential for exposure.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties**

Appearance/form	Clear (Color May Vary)
Odor	Slight
Odor threshold	Not Established
pH	9.0
Melting point/freezing point	Not Established
Initial boiling point and boiling range	>212°F
Flash point	Non Flammable
Evaporation rate	Not Determined
Vapor pressure	Not Determined
Vapor density	Not Determined
Relative density	1.0
Solubility(ies)	Complete

**SECTION 10: Stability and reactivity**

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**Stability:** Stable.

**Conditions to Avoid:** None known.

**Incompatible Materials:** Strong Reducers.

**Hazardous Decomposition Products:** Upon thermal decomposition carbon oxides and nitrogen oxides may form.

**Possibility of Hazardous Reactions:** None expected.

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## SECTION 11: Toxicological information

**Information on toxicological effects (The toxicological data below is based on the main component(s)).**

### Acute Oral Toxicity:

LD50(rat) = 2,043 mg/Kg (2-Ethylhexanoic Acid 149-57-5)

LD50(rat) = 333 mg/Kg (Potassium Hydroxide 1310-58-3)

LD50(rat) = 675 mg/Kg (Tolyltriazole 29385-43-1)

LD50(rat) = 180 mg/Kg, LD50(human) = 70 mg/Kg (Sodium Nitrite)

### Acute Dermal Toxicity:

LD50(rat) = >2,000 mg/Kg (2-Ethylhexanoic Acid 149-57-5)

LD50(rat) = >4,000 mg/Kg (Tolyltriazole 29385-43-1)

LD50(rabbit) = 178 mg/Kg (Sodium Nitrite)

### Acute Inhalation Toxicity:

LC50 (Rat, 8 h): > 0.11 mg/l (2-Ethylhexanoic Acid 149-57-5)

LC50 (Rat, 1 h): > 1.73 mg/l (Tolyltriazole 29385-43-1)

### Skin corrosion/irritation

Skin - Rabbit

Result: Severe skin irritation - 24 h (Potassium Hydroxide 1310-58-3)

### Serious eye damage/eye irritation

Eyes - Rabbit

Result: Corrosive to eyes (Potassium Hydroxide 1310-58-3)

(OECD Test Guideline 405)

### Reproductive Toxicity

Suspected of damaging the unborn child (2-Ethylhexanoic Acid 149-57-5)

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## SECTION 12: Ecological information

**Information on toxicological effects (The toxicological data below is based on the main component(s)).**

### Toxicity to Fish

LC50 (Potassium Hydroxide 1310-58-3) - *Gambusia affinis* (Mosquito fish) - 80 mg/l - 96 h

LC50 (Tolyltriazole 29385-43-1) - *B. rerio* - 65 mg/L - 96 h

LC50 (2-Ethylhexanoic Acid 149-57-5) - *Oryzias latipes* - >100 mg/L - 96 h

### Toxicity to Aquatic Invertebrates

EC50 (Tolyltriazole 29385-43-1) - *D. magna* - 35.4 mg/L - 48 h

EC50 (2-Ethylhexanoic Acid 149-57-5) - *Water Flea* - >85.4 mg/L - 48 h

### Toxicity to Aquatic Plants

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EC50 (Tolyltriazole 29385-43-1) - *S. subspicatus* - 62 mg/L (growth) - 72 h  
EC50 (2-Ethylhexanoic Acid 149-57-5) - *Scenedesmus subspicatus* - 49.3 mg/L - 72 h

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## SECTION 13: Disposal considerations

**Product Disposal** : Dispose of at a supervised incineration facility or an appropriate waste disposal facility according to current applicable local, state and federal laws, regulations and product characteristics at time of disposal.

**Empty Container** : Contaminated container should be labeled and disposed in accordance to local, state and federal laws and regulations.

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## SECTION 14: Transport information

### DOT (US)

Not regulated for transport.

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## SECTION 15: Regulatory information

### Safety, health and environmental regulations specific for the product in question

**OSHA HAZARD COMMUNICATION STANDARD:** This material is considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 311-312 Hazard Classification(s):

Acute health hazard - Yes

Chronic health hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

### Massachusetts Right To Know Components

Chemical name: POTASSIUM HYDROXIDE

CAS number: 1310-58-3

### New Jersey Right To Know Components

Common name: POTASSIUM HYDROXIDE

CAS number: 1310-58-3

### Pennsylvania Right To Know Components

Chemical name: POTASSIUM HYDROXIDE

CAS number: 1310-58-3

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**California Prop. 65 components**

Chemical name: 2-ETHYLHEXANOIC ACID

CAS number: 149-57-5

Developmental - 8/7/09

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**SECTION 16: Other information****NFPA: National Fire Protection Association****Health: 1 Fire: 0 Reactivity: 0**

IMO International Maritime Organization

EmS F-A, S-B

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