

## Enviro-Safe All in One Direct Inject

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### PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** Enviro-Safe All in One Direct Inject  
**SDS Number:** 2261DI  
**Revision Date:** 3/18/2021  
**Version:** 2.0  
**Product Description:** Seals leaks and protects A/C systems from acid.  
**Supplier Details:** Enviro-Safe Refrigerants, Inc.  
 400 Hanna Dr.  
 Pekin, IL 61554  
**Contact:** Randy Price  
**Phone:** 309-346-1110  
**Fax:** 309-346-1237  
**Email:** info@es-refrigerants.com  
**Internet:** www.es-refrigerants.com  
**Emergency:** CHEMTREC 1-800-424-9300

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### HAZARDS IDENTIFICATION

#### Classification of Substance

##### GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Physical, Flammable Liquids, 2  
 Physical, Flammable Liquids, 3  
 Health, Acute toxicity, 5 Oral  
 Health, Aspiration hazard, 1  
 Health, Skin corrosion/irritation, 2  
 Health, Skin corrosion/irritation, 3  
 Health, Respiratory or skin sensitization, 1 Skin  
 Health, Serious Eye Damage/Eye Irritation, 2 A  
 Health, Acute toxicity, 5 Inhalation  
 Health, Specific target organ toxicity - Single exposure, 3  
 Health, Reproductive toxicity, 2  
 Health, Specific target organ toxicity - Repeated exposure, 2  
 Environmental, Hazards to the aquatic environment - Acute, 2

#### GHS Label Elements, Including Precautionary Statements

**GHS Signal Word:** **DANGER**

**GHS Hazard Pictograms:**



**GHS Hazard Statements:**

H225 - Highly flammable liquid and vapour  
 H226 - Flammable liquid and vapour  
 H303 - May be harmful if swallowed  
 H304 - May be fatal if swallowed and enters airways  
 H315 - Causes skin irritation  
 H316 - Causes mild skin irritation  
 H317 - May cause an allergic skin reaction  
 H319 - Causes serious eye irritation  
 H333 - May be harmful if inhaled  
 H336 - May cause drowsiness or dizziness  
 H361 - Suspected of damaging fertility or the unborn child (state specific effect if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)  
 H373 - May cause damage to organs ( state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

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H401 - Toxic to aquatic life

### GHS Precautionary Statements:

P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat/sparks/open flames/hot surfaces.  
P233 - Keep container tightly closed.  
P240 - Ground/bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P260 - Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 - Wash skin thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves.  
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.  
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 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 - IF exposed or concerned: Get medical advice/ attention.  
P321 - Specific treatment (see supplemental first aid instructions on this label).  
P331 - Do NOT induce vomiting.  
P332 + P313 - If skin irritation occurs: Get medical advice/ attention.  
P362 - Take off contaminated clothing and wash before reuse.  
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/ container to an approved waste disposal plant.

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### COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients:		
CAS#	%	Chemical Name:
64742-54-7		Distillates, petroleum, hydrotreated heavy paraffinic
78-08-0		Silane, ethenyltriethoxy-
64-17-5		Ethyl alcohol
587-98-4		Benzenesulfonic acid, 3-[[4-(phenylamino)phenyl]azo]-, monosodium salt
108-88-3		Toluene

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### FIRST AID MEASURES

**Inhalation:** If symptoms develop, move to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, seek medical attention.

**Skin Contact:** Remove contaminated clothing and wash before reuse. Wash with soap and water, Get medical attention if needed.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

**Ingestion:** Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

#### 4.1. Description of First Aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

#### 4.2. Most Important Symptoms and Effects, Both Acute and Delayed

**Symptoms/Injuries After Inhalation:** May cause respiratory irritation.

**Symptoms/Injuries After Skin Contact:** May cause skin irritation.

**Symptoms/Injuries After Eye Contact:** May cause serious eye irritation. Symptoms may include: redness, pain, swelling, itching, burning, tearing and blurred vision. If you feel unwell, seek medical advice!

**Symptoms/Injuries After Ingestion:** May be fatal if swallowed and enters airways.

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### 5 FIRE FIGHTING MEASURES

#### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Dry powder, foam, carbon dioxide, alcohol-resistant foam.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy water stream may spread fire

#### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Flammable liquid and vapor. Vapors may travel to source of ignition and flash back.

**Explosion Hazard:** May be hazardous for flammable/explosive vapor-air mixture.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

#### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

### 6 ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray). Use special care to avoid static electric charges. Keep away from heat, sparks, open flames, hot surfaces. No smoking.

##### 6.1.1. For Non-emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

##### 6.1.2. For Emergency Responders

**Protective Equipment:** Equip clean up crew with proper protection.

**Emergency Procedures:** Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

#### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

#### 6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

### 7 HANDLING AND STORAGE

#### Handling Precautions:

##### 7.1. Precautions for Safe Handling

**Precautions for Safe Handling:** Take precautionary measures against static discharge. Use only non-sparking tools. Keep away from heat, sparks, open flames, hot surfaces. No smoking.

**Additional Hazards When Processed:** Handle empty containers with care because residual vapors are flammable. Ensure there is adequate ventilation.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

#### Storage Requirements:

##### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep/store away from direct sunlight, extremely high or low temperatures and incompatible material. Keep in fireproof place. No smoking.

**Incompatible Products:** Heat sources, strong oxidizers, strong bases, and strong acids.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Engineering Controls:

Proper grounding procedures to avoid static electricity should be followed. Take precautionary measures against static discharges. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapors may be released. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

#### Personal Protective Equipment:

Silane, ethenyltriethoxy- cas#:(78-08-0) []

Personal protective equipment

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**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full contact Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 480 min Material tested: Camatril (KCL 730 / Aldrich Z677442, Size M) Splash contact data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Eye protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection:** impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Ethyl alcohol cas#:(64-17-5) ☐

Personal protective equipment

**Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Full contact:** Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 480 min Material tested: Butoject (KCL 897 / Aldrich Z677647, Size M)

**Splash contact:** Material: Nitrile rubber Minimum layer thickness: 0.2 mm Break through time: 38 min Material tested: Dermatril P (KCL 743 / Aldrich Z677388, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Body Protection:** impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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Benzenesulfonic acid, 3-[[4-(phenylamino)phenyl]azo]-, monosodium salt cas#:(587-98-4) []

Personal protective equipment

Respiratory protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Immersion protection Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: > 480 min Material tested: Dermatrill (Aldrich Z677272, Size M)

Splash protection: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: > 30 min Material tested: Dermatrill (Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Toluene cas#:(108-88-3) []

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min Material tested: Vitoject (KCL 890 / Aldrich Z677698, Size M)

Splash contact: Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min Material tested: Vitoject (KCL 890 / Aldrich Z677698, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter

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drains. Discharge into the environment must be avoided.

Silane, ethenyltriethoxy- cas#:(78-08-0)

Ethyl alcohol cas#:(64-17-5)

Components with workplace control parameters

TWA 1,000 ppm USA. ACGIH Threshold Limit Values (TLV)

Upper Respiratory Tract irritation

Confirmed animal carcinogen with unknown relevance to humans

TWA 1,000 ppm USA. Occupational Exposure Limits  
1,900 mg/m<sup>3</sup> (OSHA) - Table Z-1 Limits for Air Contaminants

The value in mg/m<sup>3</sup> is approximate.

TWA 1,000 ppm USA. NIOSH Recommended Exposure Limits  
1,900 mg/m<sup>3</sup>

Benzenesulfonic acid, 3-[[4-(phenylamino)phenyl]azo]-, monosodium salt cas#:(587-98-4)

Toluene cas#:(108-88-3)

Components with workplace control parameters

TWA 100 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000  
375 mg/m<sup>3</sup>

STEL 150 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000  
560 mg/m<sup>3</sup>

TWA 200 ppm USA. Occupational Exposure Limits (OSHA) - Table Z2Z37.12- 1967

CEIL 300 ppm USA. Occupational Exposure Limits (OSHA) - Table Z2Z37.12- 1967

Peak 500 ppm USA. Occupational Exposure Limits (OSHA) - Table Z2Z37.12- 1967

TWA 20 ppm USA. ACGIH Threshold Limit Values (TLV)

Visual impairment

Female reproductive

Pregnancy loss

2010 Adoption

Substances for which there is a Biological Exposure Index or Indices

(see BEI section)

Not classifiable as a human carcinogen

TWA 100 ppm USA. NIOSH Recommended Exposure Limits  
375 mg/m<sup>3</sup>

ST 150 ppm USA. NIOSH Recommended Exposure Limits  
560 mg/m<sup>3</sup>

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### PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Yellow, green, brown

**Physical State:** Liquid

**Odor Threshold:** No data available

**Specific Gravity or Density:** 0.7893 g/cm at 20 °C

**Viscosity:** No data available

**Boiling Point:** 78.29 °C (172.92 °F)

**Partition Coefficient:** No data available

**Vapor Pressure:** No data available

**Potentia Hydrogenii:** No data available

**Evaporation Rate:** No data available

**Odor:** Hydrocarbon odor

**Solubility:** No data available

**Freezing or Melting Point:** -114.14 °C (-173.45 °F)

**Flash Point:** No data available

**Vapor Density:** No data available

**Autoignition Temperature:** No data available

**Upper Flammability Limit and Lower Flammability Limit:** No data available



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**Decompression Temperature:** No data available

### 10 STABILITY AND REACTIVITY

**Reactivity:** May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc. Highly flammable liquid and vapor.

**Chemical Stability:** May form flammable/explosive vapor-air mixture.

**Conditions to Avoid Identification:** Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.

**Materials to Avoid Identification:** Heat. Strong acids. Strong bases. Strong oxidizers.

**Hazardous Decomposition:** Carbon oxides (CO, CO<sub>2</sub>).

**Hazardous Polymerization:** Hazardous polymerization will not occur.

### 11 TOXICOLOGICAL INFORMATION

Silane, ethenyltriethoxy- cas#:(78-08-0)

Information on toxicological effects

Acute toxicity:

Oral LD50 Inhalation LC50 Dermal LD50 Dermal - rabbit - 9,100 mg/kg

Other information on acute toxicity no data available

Skin corrosion/irritation: Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information: RTECS: VV6700000

Ethyl alcohol cas#:(64-17-5)

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 7,060 mg/kg Remarks: Lungs, Thorax, or Respiration: Other changes.

LC50 Inhalation - rat - 10 h - 20000 ppm

Dermal: no data available

Skin corrosion/irritation: Skin - rabbit Result: No skin irritation - 24 h (OECD Test Guideline 404)

Serious eye damage/eye irritation: Eyes - rabbit Result: Mild eye irritation - 24 h (OECD Test Guideline 405)

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

Carcinogenicity - mouse - Oral:

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Liver: Tumors. Blood: Lymphomas including Hodgkins disease.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by

## Enviro-Safe All in One Direct Inject

IARC.  
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.  
Reproductive toxicity: no data available  
Reproductive toxicity - Human - female - Oral:  
Effects on Newborn: Apgar score (human only). Effects on Newborn: Other neonatal measures or effects. Effects on Newborn: Drug dependence.  
Specific target organ toxicity - single exposure: no data available  
Specific target organ toxicity - repeated exposure: no data available  
Aspiration hazard: no data available  
Additional Information: RTECS: KQ6300000

Central nervous system depression, narcosis, Damage to the heart., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.  
Stomach - Irregularities - Based on Human Evidence

Benzenesulfonic acid, 3-[[4-(phenylamino)phenyl]azo]-, monosodium salt cas#:(587-98-4)

### Information on toxicological effects

Acute toxicity:  
Oral LD50 LD50 Oral - rat - 5,000 mg/kg  
Inhalation LC50 no data available  
Dermal LD50  
Other information on acute toxicity LD50 Intraperitoneal - mouse - 1,000 mg/kg  
LD50 Intravenous - mouse - 200 mg/kg  
Skin corrosion/irritation: no data available  
Serious eye damage/eye irritation: no data available  
Respiratory or skin sensitization: May cause sensitization by skin contact.  
Germ cell mutagenicity: Genotoxicity in vitro - Human - lymphocyte Mutation in mammalian somatic cells.  
Genotoxicity in vitro - Human - leukocyte Cytogenetic analysis  
Genotoxicity in vivo - mouse - Oral  
Genotoxicity in vivo - mouse - Intraperitoneal Sister chromatid exchange

Carcinogenicity:  
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.  
Reproductive toxicity: Reproductive toxicity - rat - male:  
Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count).no data available  
Teratogenicity: no data available  
Specific target organ toxicity - single exposure (Globally Harmonized System): no data available  
Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available  
Aspiration hazard: no data available  
Potential health effects: Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.  
Synergistic effects: no data available  
Additional Information: RTECS: DB7329500

Toluene cas#:(108-88-3)

### Information on toxicological effects

Acute toxicity:  
LD50 Oral - rat - > 5,580 mg/kg  
LC50 Inhalation - rat - 4 h - 12,500 - 28,800 mg/m3  
LD50 Dermal - rabbit - 12,196 mg/kg  
no data available  
  
Skin corrosion/irritation: Skin - rabbit Result: Skin irritation - 24 h  
Serious eye damage/eye irritation: no data available  
Respiratory or skin sensitisation: no data available  
Germ cell mutagenicity: rat Liver DNA damage



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**Carcinogenicity:**

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Toluene)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Damage to fetus possible Suspected human reproductive toxicant

Reproductive toxicity - rat - Inhalation:

Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count).

Experiments have shown reproductive toxicity effects in male and female laboratory animals.

Developmental Toxicity - rat - Oral:

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: XS5250000

Lung irritation, chest pain, pulmonary edema, Inhalation studies on toluene have demonstrated the development of inflammatory and ulcerous lesions of the penis, prepuce, and scrotum in animals.

Stomach - Irregularities - Based on Human Evidence

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### ECOLOGICAL INFORMATION

Silane, ethenyltriethoxy- cas#:(78-08-0)

Information on ecological effects:

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

Ethyl alcohol cas#:(64-17-5)

Information on ecological effects:

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

Benzenesulfonic acid, 3-[[4-(phenylamino)phenyl]azo]-, monosodium salt cas#:(587-98-4)

Information on ecological effects:

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

Toluene cas#:(108-88-3)

Information on ecological effects:

Toxicity:

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 7.63 mg/l - 96 h.

NOEC - Pimephales promelas (fathead minnow) - 5.44 mg/l - 7 d

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 8.00 mg/l - 24 h.

other aquatic invertebrates

Immobilization EC50 - Daphnia magna (Water flea) - 6 mg/l - 48 h

Toxicity to algae EC50 - Chlorella vulgaris (Fresh water algae) - 245.00 mg/l - 24 h.

EC50 - Pseudokirchneriella subcapitata (green algae) - 10.00 mg/l - 24 h

Persistence and degradability: Biodegradability Result: - Readily biodegradable.

## Enviro-Safe All in One Direct Inject

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

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### DISPOSAL CONSIDERATIONS

Silane, ethenyltriethoxy- cas#:(78-08-0)

Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

Ethyl alcohol cas#:(64-17-5)

Waste treatment methods

Product: Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

Benzenesulfonic acid, 3-[[4-(phenylamino)phenyl]azo]-, monosodium salt cas#:(587-98-4)

Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

Toluene cas#:(108-88-3)

Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

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### TRANSPORT INFORMATION

**14.1. In Accordance with DOT**

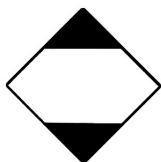
Consumer commodity ORM-D

**14.2. In Accordance with IMDG**

UN1170, Ethanol, 3, PG II

**14.3. In Accordance with IATA**

UN1170, Ethanol, 3, PG II



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### REGULATORY INFORMATION

[%] RQ (CAS#) Substance - Reg Codes

Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7) NJHS, TSCA  
 Silane, ethenyltriethoxy- (78-08-0) TSCA  
 Ethyl alcohol (64-17-5) MASS, OSHAWAC, PA, TSCA, TXAIR  
 Benzenesulfonic acid, 3-[[4-(phenylamino)phenyl]azo]-, monosodium salt (587-98-4) TSCA  
 RQ(1000LBS), Toluene (108-88-3) CERCLA, CSWHS, EPCRAWPC, HAP, MASS, NJHS, OSHAWAC, PA, PRIPOL, PROP65, SARA313,  
 TOXICPOL, TOXICRCRA, TSCA, TXAIR, TXHWL



#### WARNING




This product can expose you to chemicals including Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### Regulatory Code Legend

RQ = Reportable Quantity  
 NJHS = NJ Right-to-Know Hazardous Substances  
 TSCA = Toxic Substances Control Act  
 MASS = MA Massachusetts Hazardous Substances List  
 OSHAWAC = OSHA Workplace Air Contaminants  
 PA = PA Right-To-Know List of Hazardous Substances  
 TXAIR = TX Air Contaminants with Health Effects Screening Level  
 CERCLA = Superfund clean up substance  
 CSWHS = Clean Water Act Hazardous substances  
 EPCRAWPC = EPCRA Water Priority Chemicals  
 HAP = Hazardous Air Pollutants  
 PRIPOL = Clean Water Act Priority Pollutants  
 PROP65 = CA Prop 65  
 SARA313 = SARA 313 Title III Toxic Chemicals  
 TOXICPOL = Clean Water Act Toxic Pollutants  
 TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)  
 TXHWL = TX Hazardous Waste List

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### OTHER INFORMATION

HMIS		PPE	
<b>HEALTH</b>	<input type="checkbox"/>		<input type="checkbox"/>
<b>FLAMMABILITY</b>	<input type="checkbox"/>		<input type="checkbox"/>
<b>PHYSICAL HAZARD</b>	<input type="checkbox"/>		<input type="checkbox"/>
<b>PERSONAL PROTECTION</b>	<input type="checkbox"/> D		

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