

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 09/21/2021

Reviewed on 09/21/2021

**1 Identification**

- **Product identifier**
- **Trade name:** *Chromaclone™ Tray Adhesive*
- **Article number:** *SDS 315-001.03, 5101*
- **Application of the substance / the mixture** *Professional Dental Impression Tray Adhesive*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Ultradent Products Inc.  
505 W. Ultradent Drive (10200 S)  
South Jordan, UT 84095-3942  
USA  
onlineordersupport@ultradent.com*
- **Information department:** *Customer Service*
- **Emergency telephone number:**  
*CHEMTREC (NORTH AMERICA) : (800) 424-9300  
(INTERNATIONAL) : +(703) 527-3887*

**2 Hazard(s) identification**

- **Classification of the substance or mixture**

*GHS02 Flame**Flam. Liq. 3 H226 Flammable liquid and vapor.**GHS08 Health hazard**Carc. 2 H351 Suspected of causing cancer.**Repr. 2 H361 Suspected of damaging fertility or the unborn child.**STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.**Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.**GHS07**Skin Irrit. 2 H315 Causes skin irritation.**STOT SE 3 H335 May cause respiratory irritation.*

- **Label elements**
- **GHS label elements** *The product is classified according to the Globally Harmonized System (GHS)*
- **Hazard pictograms** *GHS02, GHS07, GHS08*
- **Signal word** *Danger*
- **Health Hazard-determining components of labeling:**  
*Toluene  
Ethylbenzene*

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· **Hazard statements**

- Flammable liquid and vapor.*
- Causes skin irritation.*
- Suspected of causing cancer.*
- Suspected of damaging fertility or the unborn child.*
- May cause respiratory irritation.*
- May cause damage to organs through prolonged or repeated exposure.*
- May be fatal if swallowed and enters airways.*

· **Precautionary statements**

- P201 Obtain special instructions before use.*
- P202 Do not handle until all safety precautions have been read and understood.*
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*
- 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/vapors/spray.*
- P264 Wash thoroughly after handling.*
- P271 Use only outdoors or in a well-ventilated area.*
- P280 Wear protective gloves/protective clothing/eye protection/face protection.*
- P301+P310 If swallowed: Immediately call a poison center/doctor.*
- P321 Specific treatment (see on this label).*
- P331 Do NOT induce vomiting.*
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.*
- P308+P313 IF exposed or concerned: Get medical advice/attention.*
- P312 Call a poison center/doctor if you feel unwell.*
- P314 Get medical advice/attention if you feel unwell.*
- P362+P364 Take off contaminated clothing and wash it before reuse.*
- P332+P313 If skin irritation occurs: Get medical advice/attention.*
- P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.*
- 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 in accordance with local/regional/national/international regulations.*

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



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### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

1330-20-7	Xylene, mixture of isomers ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	≥10-<40%
108-88-3	Toluene ⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	≥20-≤25%
100-41-4	Ethylbenzene ⚠ Flam. Liq. 2, H225; ⚠ Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332	≥10-≤25%
34590-94-8	Dipropylene Glycol Monomethyl Ether Flam. Liq. 4, H227	≥0-≤10%

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
Immediately remove any clothing soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**  
Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. In case of unconsciousness place patient stably in side position for transportation.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
Remove contaminated clothing. Immediately wash with water and soap and rinse thoroughly. Get medical advice/attention immediately. Wash contaminated clothing before using it again.  
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.
- **After swallowing:**  
Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
For symptoms and effects caused by the contained substances, see Section 11.
- **Indication of any immediate medical attention and special treatment needed** Information not available

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.  
**UNSUITABLE EXTINGUISHING EQUIPMENT**  
Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

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- **Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.

- **Advice for firefighters**

- **Protective equipment:**

**GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

Mouth respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

- **Environmental precautions:**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

- **Methods and material for containment and cleaning up:**

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- **Reference to other sections**

Any information on personal protection and disposal is given in sections 8 and 13.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when

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handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

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

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

See product labelling.

Keep receptacle tightly sealed.

· **Specific end use(s)** Professional Dental Impression Tray Adhesive

## 8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

**1330-20-7 Xylene, mixture of isomers**

PEL Long-term value: 435 mg/m<sup>3</sup>, 100 ppm

REL Short-term value: 655 mg/m<sup>3</sup>, 150 ppm

Long-term value: 435 mg/m<sup>3</sup>, 100 ppm

TLV Short-term value: 651 mg/m<sup>3</sup>, 150 ppm

Long-term value: 434 mg/m<sup>3</sup>, 100 ppm

BEI

**108-88-3 Toluene**

PEL Long-term value: 200 ppm

Ceiling limit value: 300; 500\* ppm

\*10-min peak per 8-hr shift

REL Short-term value: 560 mg/m<sup>3</sup>, 150 ppm

Long-term value: 375 mg/m<sup>3</sup>, 100 ppm

TLV Long-term value: 20 ppm

BEI, NIC-OTO

TWA Short-term value: 300 mg/m<sup>3</sup>, 100 ppm

**100-41-4 Ethylbenzene**

PEL Long-term value: 435 mg/m<sup>3</sup>, 100 ppm

REL Short-term value: 545 mg/m<sup>3</sup>, 125 ppm

Long-term value: 435 mg/m<sup>3</sup>, 100 ppm

TLV Long-term value: 87 mg/m<sup>3</sup>, 20 ppm

BEI

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### 34590-94-8 Dipropylene Glycol Monomethyl Ether

PEL	Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin
REL	Short-term value: 900 mg/m <sup>3</sup> , 150 ppm Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin
TLV	Short-term value: NIC-606 (909) mg/m <sup>3</sup> , NIC-100 (150) ppm Long-term value: NIC-303 (606) mg/m <sup>3</sup> , NIC-50 (100) ppm (Skin)

**· Ingredients with biological limit values:**

### 1330-20-7 Xylene, mixture of isomers

BEI	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
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### 108-88-3 Toluene

BEI	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene
	0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene
	0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)

### 100-41-4 Ethylbenzene

BEI	0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
	- Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)

**· Additional information:** The lists that were valid during the creation were used as basis.

**· Exposure controls**

**· Personal protective equipment:**

**· General protective and hygienic measures:**

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local ventilation. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times). The usual precautionary measures are to be adhered to when handling chemicals.

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Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing.  
 Wash hands before breaks and at the end of work.  
 Store protective clothing separately.  
 Avoid contact with the skin.  
 Avoid contact with the eyes and skin.

· **Breathing equipment:**

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material is based on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Wear airtight protective goggles (see standard EN 166).



Tightly sealed goggles

· **Body protection:**

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

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## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:** Fluid

**Color:** Red

· **Odor:** Solvent-like

· **Odor threshold:** Not available

· **pH-value:** Not determined.

· **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** 113 °C

· **Flash point:** 27 °C

· **Flammability (solid, gaseous):** Not applicable.

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

**Lower:** Not determined.

**Upper:** Not determined.

· **Vapor pressure:** Not determined.

· **Density:** Not determined

· **Relative density at 20 °C** 1.011 kg/l

· **Vapor density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

**Water:** Partly miscible.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

**Dynamic:** Not determined.

**Kinematic:** Not determined

· **Solvent content:**

**Organic solvents:** <75 %

**VOC content:** <75 %

720.0 g/l / 6.01 lb/gal

**VOC (EC)** 40-72 %

**Solids content:** <60.0 %

· **Other information** No further relevant information available.

## 10 Stability and reactivity

· **Reactivity**

There are no particular risks of reaction with other substances in normal conditions of use.

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*TOLUENE: breaks down in sunlight*

· **Chemical stability**

· **Thermal decomposition / conditions to be avoided:**

*The product is stable in normal conditions of use and storage.*

· **Possibility of hazardous reactions**

*The vapours may also form explosive mixtures with the air.*

*TOLUENE: risk of explosion on contact with fuming sulphuric acid, nitric acid, silver perchlorates, nitrogen dioxide, non-metal halogenides, acetic acid, organic nitrocompounds. Can form explosive mixtures with the air. May react dangerously with: strong oxidising agents, strong acids, sulphur (in the presence of heat).*

· **Conditions to avoid** Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

· **Incompatible materials:** Information not available

· **Hazardous decomposition products:**

*In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.*

## 11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**ATE (Acute Toxicity Estimate)**

Dermal	LD50	6,667-10,000 mg/kg (rabbit)
Inhalative	LC50/4 h	22.4-37.9 mg/l

**1330-20-7 Xylene, mixture of isomers**

Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)

**108-88-3 Toluene**

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mouse)

**100-41-4 Ethylbenzene**

Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	17,800 mg/kg (rabbit)

**34590-94-8 Dipropylene Glycol Monomethyl Ether**

Oral	LD50	5,135 mg/kg (rat)
Dermal	LD50	>19,000 mg/kg (rab)

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

*The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant*

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

1330-20-7	Xylene, mixture of isomers	3
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108-88-3	Toluene	3
100-41-4	Ethylbenzene	2B

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

· **Toxicity**

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** Information not available

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

· **Results of PBT and vPvB assessment**

· **PBT:**

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

· **vPvB:** Not applicable.

· **Other adverse effects** Information not available

## 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

· **UN-Number**

· **DOT, IMDG, IATA**

UNI133

· **UN proper shipping name**

· **DOT**

· **IMDG, IATA**

Adhesives

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· **Transport hazard class(es)**· **DOT**

· **Class** 3 Flammable liquids  
 · **Label** 3

· **IMDG, IATA**

· **Class** 3 Flammable liquids  
 · **Label** 3

· **Packing group**  
 · **DOT, IMDG, IATA** III

· **Environmental hazards:** Not Applicable.

· **Special precautions for user** Warning: Flammable liquids  
 · **Hazard identification number (Kemler code):** 30  
 · **EMS Number:** F-E,S-D  
 · **Stowage Category** A

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

· **Transport/Additional information:**

· **DOT**  
 · **Quantity limitations** On passenger aircraft/rail: 60 L  
 On cargo aircraft only: 220 L

· **IMDG**  
 · **Limited quantities (LQ)** 5L  
 · **Excepted quantities (EQ)** Code: E1  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":** UN 1133 ADHESIVES, 3, III

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
 Seveso category. 6

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Product.  
 Point. 3 - 40

Contained substance.

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Point. 48 TOLUENE

Substances in Candidate List (Art. 59 REACH): None.

Substances subject to authorisation (Annex XIV REACH): None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None.

Substances subject to the Rotterdam Convention: None.

Substances subject to the Stockholm Convention: None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

1330-20-7	Xylene, mixture of isomers
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108-88-3	Toluene
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100-41-4	Ethylbenzene
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· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

1330-20-7	Xylene, mixture of isomers
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108-88-3	Toluene
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100-41-4	Ethylbenzene
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· **Proposition 65**

· **Chemicals known to cause cancer:**

100-41-4	Ethylbenzene
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· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

108-88-3	Toluene
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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

1330-20-7	Xylene, mixture of isomers	I
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108-88-3	Toluene	II
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100-41-4	Ethylbenzene	D
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· **ACGIH Carcinogenicity (American Conference of Governmental Industrial Hygienists)**

1330-20-7	Xylene, mixture of isomers	A4
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108-88-3	Toluene	A4
100-41-4	Ethylbenzene	A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **Chemical safety assessment:** A chemical safety assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Environmental, Health, and Safety
- **Contact:** Customer Service
- **Date of preparation / last revision** 09/21/2021 / -
- **Abbreviations and acronyms:**
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - NFPA: National Fire Protection Association (USA)
  - HMIS: Hazardous Materials Identification System (USA)
  - VOC: Volatile Organic Compounds (USA, EU)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - NIOSH: National Institute for Occupational Safety
  - OSHA: Occupational Safety & Health
  - TLV: Threshold Limit Value
  - PEL: Permissible Exposure Limit
  - REL: Recommended Exposure Limit
  - BEI: Biological Exposure Limit
  - Flam. Liq. 2: Flammable liquids – Category 2
  - Flam. Liq. 3: Flammable liquids – Category 3
  - Flam. Liq. 4: Flammable liquids – Category 4
  - Acute Tox. 4: Acute toxicity – Category 4
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Carc. 2: Carcinogenicity – Category 2
  - Repr. 2: Reproductive toxicity – Category 2
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  - STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
  - Asp. Tox. 1: Aspiration hazard – Category 1