

### 1. IDENTIFICATION

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<b>Catalog Number / Product Name:</b>	<b>36029 / Ethylene Oxide Standard</b>
<b>Company:</b>	Restek Corporation
<b>Address:</b>	110 Benner Circle Bellefonte, Pa. 16823
<b>Phone#:</b>	814-353-1300
<b>Fax#:</b>	814-353-1309
<b>Emergency#:</b>	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
<b>Email:</b>	www.restek.com
<b>Revision Number:</b>	2
<b>Intended use:</b>	For Laboratory use only. Uses other than those described above

### 2. HAZARD(S) IDENTIFICATION

#### Emergency Overview:

GHS Hazard  
Symbols:



**GHS Classification:** Skin Corrosion/Irritation Category 2  
Serious Eye Damage/Eye Irritation Category 2  
Hazardous to the aquatic environment - Chronic Category 2  
Flammable Liquid Category 3  
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3

**GHS Signal Word:** Warning

**GHS Hazard:** Flammable liquid and vapour.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.  
Toxic to aquatic life with long lasting effects.

**GHS Precautions:**

**Safety Precautions:** Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilation and lighting equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Wash hands and skin thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.

**First Aid Measures:** IF ON SKIN: Wash with plenty of soap and water.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.

Call a POISON CENTER or doctor/physician if you feel unwell.  
Specific treatment see section 4.  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
In case of fire: Use extinguishing media in section 5 for extinction.  
Collect spillage.

**Storage:** Store in a well-ventilated place. Keep container tightly closed.  
Store in a well-ventilated place. Keep cool.  
Store locked up.

**Disposal:** Dispose of contents/container according to section 13 of the SDS.

**Single Exposure Target Organs:** Specific target organ toxicity - Single exposure - STOT SE 3: H335 May cause respiratory irritation.

**Repeated Exposure Target Organs:** Specific target organ toxicity - Repeated exposure - STOT RE 1: H372 Causes damage to organs through prolonged or repeated exposure. (Nervous System)

### 3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
1,2,4-trimethylbenzene	95-63-6	202-436-9	99.95
Ethylene oxide	75-21-8	200-849-9	0.05

### 4. FIRST-AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.

**Eyes:** Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

**Skin Contact:** Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

**Ingestion:** Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

### 5. FIRE- FIGHTING MEASURES

**Extinguishing Media:** Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid.

**Fire and/or Explosion Hazards:** Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

**Fire Fighting Methods and Protection:** Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions and Equipment:** Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the

expertise of employees in the area responding to the spill.

**Methods for Clean-up:**

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

**7. HANDLING AND STORAGE**

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**Handling Technical Measures and Precautions:** No data available Follow all protective equipment recommendations provided in Section 8.  
**Storage Technical Measures and Conditions:** Store in a cool dry place. Isolate from incompatible materials. Keep container closed when not in use

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**United States:**

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
1,2,4-trimethylbenzene	95-63-6	Not established	None Known	10 ppm TWA	No data available

**Personal Protection:**

**Engineering Measures:** Local exhaust ventilation is recommended when generating excessive levels of vapours from handling or thermal processing.  
**Respiratory Protection:** Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.  
**Eye Protection:** Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.  
**Skin Protection:** Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance, color:** No data available  
**Odor:** None  
**Physical State:** No data available  
**pH:** Not applicable  
**Vapor Pressure:** No data available  
**Vapor Density:** 4.14 (air = 1)  
**Boiling Point (°C):** 169.38 °C at 1013.25 hPa (ECHA\_API)  
**Melting Point (°C):** -60.5 °C  
**Flash Point (°F):** 120  
**Flammability:** Combustible  
**Upper Flammable/Explosive Limit, % in air:** No data available  
**Lower Flammable/Explosive Limit, % in air:** No data available  
**Autoignition Temperature (°C):** No data available deg C  
**Decomposition Temperature (°C):** No data available  
**Specific Gravity:** 0.8758 g/cm3 at 20 °C (ECHA\_API)  
**Evaporation Rate:** No data available  
**Odor Threshold:** No data available  
**Solubility:** Not determined  
**Partition Coefficient: n-octanol in water:** No data available  
**VOC % by weight:** 0.05  
**Molecular Weight:** No data available

**10. STABILITY AND REACTIVITY**

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**Stability:** Stable under normal conditions.  
**Conditions to Avoid:** None known.  
**Materials to Avoid / Chemical Incompatibility:** Strong oxidizing agents  
**Hazardous Decomposition Products:** No data available

## 11. TOXICOLOGICAL INFORMATION

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**Target Organs Potentially Affected By Exposure:** Eyes, Central nervous system stimulation, Respiratory Tract, Skin, Blood  
**Chemical Interactions That Change Toxicity:** None Known

### Immediate (Acute) Health Effects by Route of Exposure:

#### Long-Term (Chronic) Health Effects:

**Carcinogenicity:** Contains a probable or known human carcinogen.  
**Reproductive and Developmental Toxicity:** Contains a known human reproductive and/or developmental hazard.

#### **Component Toxicological Data:**

##### **NIOSH:**

<b>Chemical Name</b>	<b>CAS No.</b>	<b>LD50/LC50</b>
Benzene, 1,2,4-trimethyl-	95-63-6	Dermal LD50 Rabbit >3160 mg/kg; Inhalation LC50 Rat 18 g/m <sup>3</sup> 4 h; Oral LD50 Rat 3280 mg/kg

#### **Component Carcinogenic Data:**

##### **OSHA:**

<b>Chemical Name</b>	<b>CAS No.</b>
No data available	

##### **ACGIH:**

<b>Chemical Name</b>	<b>CAS No.</b>	
1,2,4-Trimethylbenzene	95-63-6	A4 - Not Classifiable as a Human Carcinogen

##### **NIOSH:**

<b>Chemical Name</b>	<b>CAS No.</b>
No data available	

##### **NTP:**

<b>Chemical Name</b>	<b>CAS No.</b>
No data available	

##### **IARC:**

<b>Chemical Name</b>	<b>CAS No.</b>	<b>Group No.</b>
Monograph 60; 1994 (Overall evaluation upgraded from 2A to 1 with supporting evidence from other data relevant to the evaluation of carcinogenicity and its mechanisms)	75-21-8	Group 1

## 12. ECOLOGICAL INFORMATION

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**Overview:** This material is not expected to be harmful to the ecology.  
**Mobility:** No data  
**Persistence:** No data  
**Bioaccumulation:** No data  
**Degradability:** No data  
**Ecological Toxicity Data:** No data available

## 13. DISPOSAL CONSIDERATIONS

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**Waste Description of Spent Product:** Spent or discarded material is a hazardous waste. Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.  
**Disposal Methods:** Dispose of by incineration following Federal, State, Local, or Provincial regulations.  
**Waste Disposal of Packaging:** Comply with all Local, State, Federal, and Provincial Environmental Regulations.

## 14. TRANSPORTATION INFORMATION

### United States:

**DOT Proper Shipping Name:** Hydrocarbons, liquid, n.o.s. (1,2,4-Trimethylbenzene)  
**UN Number:** UN3295  
**Hazard Class:** 3  
**Packing Group:** III

### International:

**IATA Proper Shipping Name:** Hydrocarbons, liquid, n.o.s. (1,2,4-Trimethylbenzene)  
**UN Number:** UN3295  
**Hazard Class:** 3  
**Packing Group:** III

**Marine Pollutant:** No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

## 15. REGULATORY INFORMATION

### United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
1,2,4-trimethylbenzene	95-63-6	-	X	-	X
Ethylene oxide	75-21-8				X

### The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Ethylene oxide	75-21-8	Prop 65 Cancer
Ethylene oxide	75-21-8	Prop 65 Develop Tox
Ethylene oxide	75-21-8	Prop 65 Rep Female
Ethylene oxide	75-21-8	Prop 65 Rep Male

### State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
1,2,4-trimethylbenzene	95-63-6	X	X	X	-
Ethylene oxide	75-21-8				

## 16. OTHER INFORMATION

**Prior Version Date:** 04/05/24

**Other Information:** Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

**References:** No data available

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