



# POLYONE CORPORATION

## MATERIAL SAFETY DATA SHEET

### STAN-TONE HCC-34094 NOVAPERM ORANGE HL70

Version Number 1.0

Revision Date 04/23/2012

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

##### POLYONE CORPORATION

8155 Cobb Center Drive, Kennesaw, GA 30152

Telephone : 1 (440) 930-1000 or 1 (866) POLYONE  
Emergency telephone : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

Product name : STAN-TONE HCC-34094 NOVAPERM ORANGE HL70  
Product code : FO20029324  
Chemical Name : Mixture  
CAS-No. : Mixture  
Product Use : Industrial Applications

#### 2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight percent
1,2,4-Trimethylbenzene	95-63-6	10 - 30
Solvent naphtha, petroleum, light arom.	64742-95-6	30 - 60
Ethyl benzene	100-41-4	0.1 - 1
Xylenes (o-, m-, p- isomers)	1330-20-7	1 - 5
Cumene	98-82-8	1 - 5

#### 3. HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

Combustible. Vapors may be irritating to eyes and respiratory tract. This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions.

##### POTENTIAL HEALTH EFFECTS

Routes of Exposure: : Inhalation, Skin contact, Ingestion

##### Acute exposure

Inhalation : Inhalation of airborne droplets may cause irritation of the respiratory tract.  
Ingestion : May be harmful if swallowed.  
Eyes : May cause eye and skin irritation.  
Skin : Experience shows no unusual dermatitis hazard from routine handling.

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**Chronic exposure** : Refer to Section 11 for Toxicological Information.

**Medical Conditions** : None known.

**Aggravated by Exposure:**

**4. FIRST AID MEASURES**

- Inhalation** : Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases of doubt seek medical advice.
- Ingestion** : Do not induce vomiting without medical advice. Seek medical attention if necessary.
- Eyes** : Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, seek medical attention.
- Skin** : Wash off with soap and plenty of water. If skin irritation persists seek medical attention.

**5. FIRE-FIGHTING MEASURES**

- Flash point** : Between 100 °F and 200 °F (38°C and 93°C)
- Flammable Limits**
- Upper explosion limit** : no data available
  - Lower explosion limit** : no data available
- Autoignition temperature** : no data available
- Suitable extinguishing media** : Carbon dioxide blanket, Water spray, Dry powder, Foam.
- Special Fire Fighting Procedures** : Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.
- Unusual Fire/Explosion Hazards** : May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions. Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), other hazardous materials, and smoke are all possible.

**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions** : Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.
- Environmental precautions** : The product should not be allowed to enter drains, water courses or the soil. Should not be released into the environment.
- Methods for cleaning up** : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place

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in container for disposal according to local / national regulations (see section 13). Package all material in appropriate container for disposal. Refer to Section 13 of this MSDS for proper disposal methods.

**7. HANDLING AND STORAGE**

- Handling : Combustible liquid. Keep away from flames, hot surfaces, and sources of ignition. Use only in an area with appropriate ventilation. Processing fume condensates may contain combustible or toxic residue. Periodically clean hoods, ducts, and other surfaces to minimize accumulation of these materials.
- Storage : Store below 140 °F (60 °C). Keep containers dry and tightly closed to avoid moisture absorption and contamination.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Respiratory protection : Under normal handling conditions a respirator may not be required. Airborne contaminant levels should be maintained below the occupational exposure guidelines.
- Eye/Face Protection : Safety glasses with side-shields
- Hand protection : Protective gloves
- Skin and body protection : Long sleeved clothing
- Additional Protective Measures : Safety shoes
- General Hygiene Considerations : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Ensure adequate ventilation, especially in confined areas.
- Engineering measures : Provide general and/or local exhaust ventilation to control airborne contaminant levels below the exposure guidelines.

Exposure limit(s)

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Components	Value	Exposure time	Exposure type	List:	
Ethyl benzene	20 ppm	Time Weighted Average (TWA):		ACGIH	
	100 ppm 435 mg/m3	Recommended exposure limit (REL):		NIOSH	
	125 ppm 545 mg/m3	Short Term Exposure Limit (STEL):		NIOSH	
	100 ppm 435 mg/m3	PEL:		OSHA Z1	
	100 ppm 435 mg/m3	Time Weighted Average (TWA):		OSHA Z1A	
	125 ppm 545 mg/m3	Short Term Exposure Limit (STEL):		OSHA Z1A	
	100 ppm 435 mg/m3	Time Weighted Average (TWA):		MX OEL	
	125 ppm 545 mg/m3	Short Term Exposure Limit (STEL):		MX OEL	
	Xylenes (o-, m-, p-isomers)	100 ppm	Time Weighted Average (TWA):		ACGIH
		150 ppm	Short Term Exposure Limit (STEL):		ACGIH
100 ppm 435 mg/m3		PEL:		OSHA Z1	
100 ppm 435 mg/m3		Time Weighted Average (TWA):		OSHA Z1A	
150 ppm 655 mg/m3		Short Term Exposure Limit (STEL):		OSHA Z1A	
100 ppm 435 mg/m3		Time Weighted Average (TWA):		MX OEL	
150 ppm 655 mg/m3		Short Term Exposure Limit (STEL):		MX OEL	
Cumene		50 ppm	Time Weighted Average (TWA):		ACGIH
		50 ppm 245 mg/m3	PEL:		OSHA Z1
		50 ppm 245 mg/m3	Time Weighted Average (TWA):		MX OEL
	75 ppm 365 mg/m3	Short Term Exposure Limit (STEL):		MX OEL	

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	: liquid	Evaporation rate	: Not established
Appearance	: viscous, liquid	Specific Gravity	: Not determined
Colour	: ORANGE	Bulk density	: Not applicable
Odour	: very faint	Vapour pressure	: Not determined
Melting point/range	: not applicable	Vapour density	: Not determined
Boiling Point:	: no data available	pH	: Not determined
Water solubility	: immiscible		

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**10. STABILITY AND REACTIVITY**

- Stability : Stable
- Hazardous Polymerization : Will not occur.
- Conditions to avoid : Keep away from oxidizing agents and open flame.
- Incompatible Materials : Incompatible with strong acids and oxidizing agents., Avoid contact with acetal homopolymers and acetal copolymers during processing.
- Hazardous decomposition products : Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), hydrogen chloride (HCl), other hazardous materials, and smoke are all possible. Prolonged heating may result in product degradation. As a general rule of thumb, degradation begins to occur after one hour at 177 °C (350 °F), after 10 minutes at 204 °C (400 °F), and within 5 minutes at 232 °C (450 °F).

**11. TOXICOLOGICAL INFORMATION**

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
95-63-6	1,2,4-Trimethylbenzene	Systemic effects	central nervous system (CNS).
		Irritant	Eyes, Skin.
100-41-4	Ethyl benzene	Irritant	Eyes, Skin, Respiratory system.
		Systemic effects	Eyes, Skin, Respiratory system, central nervous system (CNS).
1330-20-7	Xylenes (o-, m-, p-isomers)	Irritant	Eyes, Respiratory system.
		Systemic effects	Eyes, Skin, Respiratory system, blood and blood forming system, Liver, Kidney, central nervous system (CNS), digestive system.
98-82-8	Cumene	Systemic effects	central nervous system (CNS).
		Toxic	Refer to LC50 / LD50 Data on MSDS..

LC50 / LD50

This product contains the following components which, in their pure form, have the following toxicity data:

CAS-No.	Chemical Name	Route	Value	Species
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95-63-6	1,2,4-Trimethylbenzene	Oral LD50 Oral LD50 Dermal LD50	5,000 mg/kg 6.0 g/kg 3,160 mg/kg	rat rat rabbit
64742-95-6	Solvent naphtha, petroleum, light arom.	Oral LD50	8,400 mg/kg	rat
100-41-4	Ethyl benzene	Oral LD50 Dermal LD50	3,500 mg/kg 17800 ul/kg	rat rabbit
1330-20-7	Xylenes (o-, m-, p- isomers)	LC50 LC50 Oral LD50 Oral LD50 Dermal LD50 Dermal LD50	5000 ppm/4H 4,300 mg/kg 4,300 mg/kg > 1,700 mg/kg 43 g/kg	rat rat rat rabbit rabbit rabbit
98-82-8	Cumene	LC50 LC50 LC50 Oral LD50 Oral LD50 Dermal LD50	10 gm/m3 12,750 mg/kg 1,400 mg/kg 12300 ul/kg	mouse mouse rat mouse rat rabbit

**Carcinogenicity**

This product contains the following components which, in their pure form, have the following carcinogenicity data:

CAS-No.	Chemical Name	OSHA	IARC	NTP
100-41-4	Ethyl benzene	no	2B	no

**IARC Carcinogen Classifications:**

- 1 - The component is carcinogenic to humans.
- 2A - The component is probably carcinogenic to humans.
- 2B - The component is possibly carcinogenic to humans.

**NTP Carcinogen Classifications:**

- 1 - The component is known to be a human carcinogen.
- 2 - The component is reasonably anticipated to be a human carcinogen.

**12. ECOLOGICAL INFORMATION**

- Persistence and degradability : Not readily biodegradable.
- Environmental Toxicity : Environmental toxicity has not been established for this mixture as a whole.
- Bioaccumulation Potential : no data available
- Additional advice : no data available

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**13. DISPOSAL CONSIDERATIONS**

- Product : Where possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
- Contaminated packaging : Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

**14. TRANSPORT INFORMATION**

- U.S. DOT Classification : Refer to specific regulation.
- ICAO/IATA : Refer to specific regulation.
- IMO/IMDG (maritime) : Refer to specific regulation.

**15. REGULATORY INFORMATION**

US Regulations:

- OSHA Status : Classified as hazardous based on components.
- TSCA Status : All components of this product are listed on or exempt from the TSCA Inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302)  
not applicable

- California Proposition 65 : WARNING! This product contains a chemical known to the State of California to cause cancer.

SARA Title III Section 302 Extremely Hazardous Substance

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

SARA Title III Section 313 Toxic Chemicals:

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

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Chemical Name	CAS-No.	Weight percent
ETHYLBENZENE	100-41-4	0.10 - 1.00
XYLENE (MIXED ISOMERS)	1330-20-7	1.00 - 5.00
1,2,4-TRIMETHYLBENZENE	95-63-6	10.00 - 30.00

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight percent	NPRI ID#
Ethyl benzene	100-41-4	0.10 - 1.00	
Xylenes (o-, m-, p- isomers)	1330-20-7	1.00 - 5.00	
Cumene	98-82-8	0.10 - 1.00	
1,2,4-Trimethylbenzene	95-63-6	10.00 - 30.00	

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.
100-41-4
98-82-8
95-63-6

DSL : All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

National Inventories:

- Australia AICS : Listed
- China IECS : Listed
- Europe EINECS : Listed
- Japan ENCS : Not determined
- Korea KECI : Listed
- Philippines PICCS : Listed

**16. OTHER INFORMATION**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.





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