

MATERIAL SAFETY DATA SHEET

O205 NEUTRAL

Version Number 1.0
Revision Date 10/29/2002

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION
2700 Papin Street, St. Louis, MO 63103

NON-EMERGENCY TELEPHONE : Product Stewardship, (314) 771-1800
Emergency telephone number : **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**

Product name : O205 NEUTRAL
 Product code : FO20002149
 Chemical Name : Mixture
 CAS-No. : Mixture
 Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
Ethyl benzene	100-41-4	0.1 - 1
1,2,4-Trimethylbenzene	95-63-6	5 - 10

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/skin irritation.
 Skin : Experience shows no unusual dermatitis hazard from routine handling.

Chronic exposure : Refer to Section 11 for Toxicological Information.

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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

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, dry powder, foam, Water spray.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.

Environmental precautions : Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.

Methods for cleaning up : Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place 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

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- 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 deg F (60 deg 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)

Components	Value	Exposure time	Exposure type	List:
Ethyl benzene	100 ppm 434 mg/m ³	Time Weighted Average (TWA):	Vapor and aerosol.	ACGIH
	125 ppm 543 mg/m ³	Short Term Exposure Limit (STEL):	Vapor and aerosol.	ACGIH
Ethyl benzene	100 ppm 435 mg/m ³	PEL:	Vapor and aerosol.	OSHA Z1
1,2,4-Trimethylbenzene	25 ppm 123 mg/m ³	Time Weighted Average (TWA):	Vapor.	ACGIH

9. PHYSICAL AND CHEMICAL PROPERTIES

- | | | | |
|------------|-------------------|------------------|-------------------|
| Form | : Liquid | Evaporation rate | : Not established |
| Appearance | : Viscous, Liquid | Specific Gravity | : Not determined |
| Color | : NO PIGMENT | Bulk density | : Not applicable. |
| Odor | : Very faint | Vapor pressure | : Not determined |

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Melting point/range	: Not applicable	Vapor density	: Not determined
Boiling Point:	: No data available.	pH	: Not determined
Water solubility	: Immiscible		

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 ₂), carbon monoxide (CO), oxides of nitrogen (NO _x), 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
100-41-4	Ethyl benzene	Irritant	Eyes, Skin, Respiratory system.
		Systemic effects	Eyes, Skin, Respiratory system, central nervous system.
95-63-6	1,2,4-Trimethylbenzene	Systemic effects	central nervous system.
		Irritant	Eyes, Skin.

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
100-41-4	Ethyl benzene	Oral LD50	3,500 mg/kg	rat
		Dermal LD50	17800 ul/kg	rabbit
95-63-6	1,2,4-Trimethylbenzene	Oral LD50	5,000 mg/kg	rat

Carcinogenicity:

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

CAS-No.	Chemical Name	OSHA	IARC	NTP

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100-41-4	Ethyl benzene	no	2B	no
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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.

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
- Proper Shipping Name: Flammable liquids, n.o.s.
- Technical Name: Petroleum distillates
- Hazard Class / Division 3
- UN Number UN1993
- Packing Group III
- Label Required 3
- Hazardous Substance Not applicable
- Reportable quantity: 13,521 LB
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- ICAO/IATA Refer to specific regulation.
- IMO / IMDG Refer to specific regulation.

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15. REGULATORY INFORMATION

US Regulations:

OSHA Status : Classified as hazardous based on components.

TSCA Status : All components of this product are listed on the TSCA inventory or are exempt.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Chemical Name	CAS-No.	% in Product	RQ for component	RQ for Mixture/Product
Xylenes (o-, m-, p-isomers)	1330-20-7	0.7396	100 lbs	13,521 LB

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

SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
1,2,4-TRIMETHYLBENZENE	95-63-6	07.88

Canadian Regulations:

WHMIS Classification : D2A, B3

WHMIS Ingredient Disclosure List

CAS-No.
100-41-4
1330-20-7
95-63-6

DSL : Listed.

National Inventories:

Australia AICS : Not determined.

China IECS : Not determined.

Europe EINECS : Not determined.

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Japan ENCS : Not determined.

Korea KECI : Not determined.

Philippines PICCS : Not determined.

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.