

POLYONE CORPORATION**MATERIAL SAFETY DATA SHEET****THINNERS**Version Number 1.0
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Print Date 11/14/2011**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 : THINNERS

Product code : FO00014058

Chemical Name : Mixture

CAS-No. : Mixture

Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
1,3,5-Trimethylbenzene	108-67-8	5 - 10
1,2,4-Trimethylbenzene	95-63-6	10 - 30
1-Butanol	71-36-3	10 - 30
Diacetone alcohol	123-42-2	30 - 60

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

Flammable. May be harmful if inhaled. Harmful if swallowed. May cause skin irritation. Flammable liquid and vapor. 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. In addition, heating or processing this material may result in product degradation or byproduct formation creating additional hazards. See Sections 8 and 11 for additional details.

POTENTIAL HEALTH EFFECTS

Routes of Exposure: : Inhalation, Skin contact, Ingestion

Acute exposure

Inhalation : Excessive inhalation of product vapors may cause respiratory irritation, headaches, dizziness, and/or nausea.

Ingestion : May be harmful if swallowed. May cause nausea, abdominal spasms and irritation of the mucous membranes.

Eyes : Liquid, aerosol, or vapors of this product are irritating and may cause tearing, reddening, and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

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Skin : Prolonged or repeated skin contact can cause de-fatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Chronic exposure : Refer to Section 11 for Toxicological Information.

Medical Conditions Aggravated by Exposure: : Individuals with chronic respiratory disorders (i.e. asthma, chronic bronchitis, etc.) may be adversely affected by any airborne contaminant.

4. FIRST AID MEASURES

Inhalation : Move to fresh air in case of accidental inhalation of vapours or decomposition products. Seek medical attention after significant exposure.

Ingestion : Do not induce vomiting without medical advice. If conscious, drink plenty of water. 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 : Less than 75 °F (24 °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, foam, dry chemical none.

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 : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), 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 and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in

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container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

- Handling : Flammable liquid. Keep away from flames, hot surfaces, and sources of ignition. Use of non-sparking or explosion-proof equipment may be necessary. Never use compressed air for transferring product. Ensure all equipment is electrically grounded before beginning transfer operations. Take measures to prevent the build up of static electricity. Use only in area provided with appropriate exhaust ventilation.
- Storage : Store below 120 °F (49 °C) Keep containers tightly closed in a cool, well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Flammable Liquid. Check local fire regulations for sprinkler or explosion proof storage location requirements.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Respiratory protection : Airborne contaminant levels should be maintained below the occupational exposure guidelines. When respiratory protection is required, use an approved air-purifying or positive pressure supplied-air respirator, depending upon potential airborne contaminant concentrations. Employees using respirators must be properly trained.
- Eye/Face Protection : Wear goggles or face shield during operations that present a splash potential.
- Hand protection : Protective gloves. Protective gloves. Refer to equipment supplier to ensure protection.
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- 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:
1,2,4-Trimethylbenzene	25 ppm 123 mg/m3	Time Weighted Average (TWA):	Vapor.	ACGIH
1-Butanol	50 ppm 152 mg/m3	Ceiling Limit Value:	Vapor.	ACGIH
	100 ppm 300 mg/m3	PEL:	Vapor.	OSHA Z1
1,3,5-Trimethylbenzene	25 ppm	Time Weighted Average (TWA):	Vapor and aerosol.	ACGIH
Diacetone alcohol	50 ppm	Time Weighted Average (TWA):	Vapor.	ACGIH
	50 ppm 240 mg/m3	PEL:	Vapor.	OSHA Z1

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: liquid	Evaporation rate	: Faster than Butyl Acetate
Appearance	: liquid	Specific Gravity:	: Not determined
Color	: NOT APPLICABLE	Bulk density	: Not applicable
Odor	: solvent	Vapor pressure	: Not determined
Melting point/range	: Not applicable	Vapour density	: Heavier than air.
Boiling Point:	: No data available	pH	: Not determined
Water solubility	: Negligible		

10. STABILITY AND REACTIVITY

Stability	: Stable.
Hazardous Polymerization	: Will not occur.
Conditions to avoid	: Keep away from oxidizing agents and open flame. Heat, flames and sparks.
Incompatible Materials	: Incompatible with strong acids and oxidizing agents.
Hazardous decomposition products	: Carbon dioxide (CO ₂), carbon monoxide (CO), other hazardous materials, and smoke are all possible.

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
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108-67-8	1,3,5-Trimethylbenzene	Systemic effects	Eyes, Skin, Respiratory system, blood and blood forming system, central nervous system (CNS).
95-63-6	1,2,4-Trimethylbenzene	Systemic effects	central nervous system (CNS).
		Irritant	Eyes, Skin.
71-36-3	1-Butanol	Irritant	Eyes, Respiratory system.
		Systemic effects	Eyes, central nervous system (CNS).
123-42-2	Diacetone alcohol	Systemic effects	Eyes, Skin, Respiratory system, Liver, central nervous system (CNS).

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
108-67-8	1,3,5-Trimethylbenzene	LC50	24 gm/m3	rat
95-63-6	1,2,4-Trimethylbenzene	Oral LD50	5,000 mg/kg	rat
71-36-3	1-Butanol	LC50	8000 ppm/4H	rat
		Oral LD50	790 mg/kg	rat
		Dermal LD50	3,400 mg/kg	rabbit
123-42-2	Diacetone alcohol	Oral LD50	3,950 mg/kg	mouse
		Dermal LD50	13,500 mg/kg	rabbit

12. ECOLOGICAL INFORMATION

Persistence and degradability : No data available
 Environmental Toxicity : No data available
 Bioaccumulation Potential : No data available
 Additional advice : No data available

13. DISPOSAL CONSIDERATIONS

Product : Dispose of properly. Do not dump into sewers, on the ground, or into any body of water. 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

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U.S. DOT Classification : Refer to specific regulation.
ICAO/IATA (air) : 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)

Chemical Name	CAS-No.	% in Product	RQ for component	RQ for Mixture/Product
1-Butanol	71-36-3	14.4155	5,000 lbs	34,685 LB

California Proposition : This product does not contain a substance listed by California Prop 65.

SARA Title III Section 302 Extremely Hazardous Substance

Not applicable

SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
1,2,4-TRIMETHYLBENZENE	95-63-6	18.66
N-BUTYL ALCOHOL	71-36-3	14.41

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight %	NPRI ID#
1,2,4-Trimethylbenzene	95-63-6	18.66	233
1-Butanol	71-36-3	14.41	34

WHMIS Classification : D2A

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WHMIS Ingredient Disclosure List

CAS-No.
95-63-6
71-36-3
108-67-8
123-42-2

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 : Listed
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 when used in combination with any other materials and/or in any particular process or processing conditions.