

# MSDS - Material Safety Data Sheet

**Product Name:** 3M Troubleshooter

**MSDS No.:** 196

**I. Basic Information:**

**Manufacturer:** 3M  
**Address:**  
**City, ST Zip:** St. Paul, MN 55144



**Last Update:**

**Chemical State:**  Liquid     Gas     Solid

**Chemical Type:**  Pure     Mixture

2	Health
1	Flammability
0	Reactivity
B	Pers. Protection

**II. Ingredients:**

CAS No.	Chemical Name	% Range	EHS	NTP	IARC	SARA SUB Z 313	OSHA PEL	ACGIH TLV	Other Limits
111762	2- Butoxyethanol								
141435	2-Amino Ethanol								
75285	Isobutane								

**III. Hazardous Identification:**

**Hazard Category:**

Acute     Chronic     Fire     Pressure     Reactive

**Hazardous Identification Information:**

When direct skin contact is likely, wear a pair of gloves. Gloves Make from the following materials are recommended: Butyl rubber, nitrile rubber.

**IV. First Aid Measures:**

**Route(s) of Entry:**

Eyes, Skin, Inhalation, and Ingestion

**Health Hazards (Acute and Chronic):**

When direct skin contact is likely, wear a pair of gloves. Gloves Make from the following materials are recommended: Butyl rubber, nitrile rubber.

**Signs and Symptoms:**

Eye Contact: Moderate eye irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

Skin Contact: Mild skin irritation: signs and symptoms can include redness, swelling, and itching.

Prolonged or repeated contact may cause: may be absorbed through the skin and produce effects similar to those caused by inhalation and/or ingestion.

Inhalation: Single over exposure, above recommended guidelines, may cause: Irritation (upper respiratory): Signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

**Medical Conditions Generally Aggravated by Exposure:**

Preexisting respiratory and skin conditions

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**Emergency and First Aid Procedures:**

Eye Contact: Immediately flush eyes with large amounts of water. Get immediate

**Other Health Warnings:**

Avoid breathing of vapors, mists or spray.

## V. Fire Fighting Measures:

**Flash Point:** 196                      **Lower Explosive Limit:** ND                      **Upper Explosive Limit:** ND

**Fire Extinguishing Media:** Water spray, carbon dioxide, Dry chemical, foam

**Special Fire Fighting Procedures:**

Water may not effectively extinguish the fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

**Unusual Fire and Explosion:**

Closed containers exposed to heat from fire may build pressure and explode. Aerosol containers contain flammable gas under pressure. Keep away from heat, sparks, open flame, and other sources of ignition. Do not pierce or burn container, even after use.

## VI. Accidental Release Measures:

**Steps to be Taken in Case Material is Released or Spilled:**

Refer to other sections of the MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protection equipment. Ventilate area. Extinguish all ignition sources. Collect spilled material. Clean up residue with water. Place in a U.S. DOT-approved container.

## VII. Handling and Storage:

**Precautions to be Taken:**

Store at temperatures below 120 degrees F (49DegreesC). KEEP OUT OF THE REACH OF CHILDREN

**Other Precautions:**

The chemical 2-Butoxyethanol has the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

## VIII. Exposure Controls/Personal Protection:

**Ventilation Requirements:**

Use in a well ventilated area. Provide sufficient ventilation to maintain emissions below recommended exposure limits.

**Personal Protective Equipment:**

Eye Protection: Avoid eye contact Skin Protection: Avoid prolonged or repeated skin contact. When direct skin contact is likely, wear a pair of gloves. Gloves made from the following materials are recommended; butyl rubber, nitrile rubber.

## IX. Physical and Chemical Properties:

**Boiling Point:** 212F                      **Melting Point:** ND                      **Evaporation Rate:** ND

**Vapor Pressure (mm Hg.):** ND                      **Vapor Density (AIR = 1):** ND

**Solubility In Water:** Complete

**Appearance and Odor:** Liquid, bland odor.

**Other Information:** None known.

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## X. Stability and Reactivity:

**Stability:**

Stable.

**Incompatibility (Materials to Avoid):**

Heat.

**Decomposition/By Products:**

Carbon monoxide, carbon dioxide.

**Hazardous Polymerization:**

Will not occur.

## XI. Toxicological Information:

Not established.

## XII. Ecological Information:

Not established.

## XIII. Disposal Considerations:

Flush spent solutions and small quantities (less than 5 gal.(19L) to a wastewater treatment system. Reduce discharge reate if foaming occurs. Incinerate in a permitted hazardous waste incinerator in the presence of a combustible material. Do not puncture or burn cans in a household incinerator. Facility must be capable of handling aerosol cans. Dispose of empty cans in a sanitary landfill.

## XIV. Transport Information:

Non regulated.

## XV. Regulatory Information:

Volatile Organic Compounds: Ca 275 gms/liter South Coast air Quality

Mgmt Dist Method Rule 443.1, calculated.

VOC Less H2O & Exempt solvents: ND

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number= None (Not U.S. EPA Hazardous).

All chemicals used in the manufacture of this material are listed on the following chemical inventories: TSCA

## XVI. Other Information:

Distributed by-G & L Supply 139 N. Diamond St. Mansfield, Oh 44901  
The Janton Company 1288 N. High St. Columbus, Oh 43201

EMERGENCY TELEPHONE NO. 419-524-5112