

Material Safety Data Sheet

Material Name: ANOFUMEGO

ID: 232268

*** Section 1 - Chemical Product and Company Identification ***

Product Trade Name ANOFUMEGO

Manufacturer Information

Henkel Surface Technologies
32100 Stephenson Highway
Madison Heights, MI 48071

Contact Phone: (248) 583-9300

Chemtrec Emergency # (800) 424-9300

*** Section 2 - Composition / Information on Ingredients ***

CAS #	Component	Percent
27619-97-2	Perfluorohexylethylsulfonic acid	1-10
111-76-2	Ethylene glycol n-butyl ether	1-10
65545-80-4	Fluorosurfactant	1-10

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Glycol ethers.

*** Section 3 - Hazards Identification ***

Emergency Overview:

WARNING! This product may be severely irritating to the eyes. A component in this product may be absorbed through the skin in harmful amounts. Product contains a glycol ether which caused blood disorders in rabbits.

Ethylene glycol n-butyl ether has caused red blood cell hemolysis in laboratory animals and secondary injury to the kidney and liver.

Eye Contact:

This product is severely irritating to the eyes.

Skin Contact:

This product may be severely irritating to the skin.

Skin Absorption:

A component in this product may be absorbed through the skin in harmful amounts.

Ingestion:

May cause dizziness, incoordination, headache, nausea, and vomiting.

Inhalation:

Repeated inhalation may be harmful; lung irritation and serious central nervous system disorders may result. This product is severely irritating to the respiratory system. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination.

Medical Conditions Aggravated by Exposure:

Pre-existing eye, skin and respiratory disorders. Disorders of the blood.

*** Section 4 - First Aid Measures ***

Eye Contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact:

For skin contact, flush with large amounts of water. If irritation persists, get medical attention.

Ingestion:

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

Inhalation:

If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.

Material Safety Data Sheet

Material Name: ANOFUMEGO

ID: 232268

First Aid: Notes to Physician

No additional information available.

*** Section 5 - Fire Fighting Measures ***

Flash Point: >212 Deg F.

Method Used: Calculated

Flammability
Classification:

Upper Flammable
Limit (UFL): Not determined

Lower Flammable
Limit (LFL): Not determined

Fire & Explosion Hazards:

None expected.

Decomposition Products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Extinguishing Media:

Dry chemical, foam, carbon dioxide, water fog.

Fire-Fighting Instructions:

Firefighters should wear full protective clothing including self contained breathing apparatus.

*** Section 6 - Accidental Release Measures ***

Containment Procedures:

Stop the flow of material, if this is without risk. Wear appropriate protective equipment and clothing during clean-up. Remove sources of ignition.

Clean-Up Procedures:

Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of collected material according to regulation.

*** Section 7 - Handling and Storage ***

Handling Procedures:

Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Wash thoroughly after handling. For industrial use only. Do not take internally.

Storage Procedures:

Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Do not handle or store near an open flame, heat or other sources of ignition.

Empty product containers retain product residue. Do not pressurize, cut, heat, weld or expose such containers to flame. Manufacturer recommends storing above 40 °F. Thaw and mix thoroughly if frozen.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines:

A: General Product Information

Follow all applicable exposure limits.

Material Safety Data Sheet

Material Name: ANOFUMEGO

ID: 232268

B: Component Exposure Limits

Ethylene glycol n-butyl ether (111-76-2)

ACGIH: 20 ppm TWA
skin - potential for cutaneous absorption
OSHA: 25 ppm TWA; 120 mg/m³ TWA
Prevent or reduce skin absorption
NIOSH: 5 ppm TWA; 24 mg/m³ TWA
Potential for dermal absorption

Engineering Controls:

Ventilation should effectively remove and prevent buildup of any vapor or mist generated from the handling of this product.

PERSONAL PROTECTIVE EQUIPMENT

Eyes/Face Protective Equipment:

Wear chemical goggles; face shield (if splashing is possible).

Skin Protection:

Use impervious gloves. Use of impervious apron and boots are recommended.

Respiratory Protection:

If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Personal Protective Equipment:

Eye wash fountain and emergency showers are recommended.

*** Section 9 - Physical & Chemical Properties ***

Physical State: Liquid	Appearance: Colorless
Odor: Mild	Vapor Pressure: Not determined
Vapor Density: Not determined	Boiling Point: >200 °F (>93.3 °C)
Specific Gravity: 1.0 - 1.1	pH: 6.5
Viscosity: Not determined	VOC: Not determined
Solubility Water: Complete	Evaporation Rate: Not determined
Percent Volatile: Not determined	Percent Solids: 10-30

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability:

Stable under normal conditions.

Conditions to Avoid:

Avoid excessive heat and ignition sources.

Incompatibility:

This product may react with strong oxidizing agents.

Decomposition Products:

Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons. Decomposition of this product may yield oxides of sulfur.

Hazardous Polymerization:

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Toxicity:

A: General Product Information

No information available for the product.

Material Safety Data Sheet

Material Name: ANOFUMEGO

ID: 232268

B: Component Analysis - LD50/LC50

Ethylene glycol n-butyl ether (111-76-2)

Inhalation LC50 Rat : 450 ppm/4H

Inhalation LC50 Mouse : 700 ppm/7H

Oral LD50 Rat : 470 mg/kg

Oral LD50 Mouse : 1230 mg/kg

Dermal LD50 Rabbit : 220 mg/kg

Carcinogenicity:

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Chronic Toxicity

Ethylene glycol n-butyl ether has caused red blood cell hemolysis in laboratory animals and secondary injury to the kidney and liver.

Epidemiology:

No information available for the product.

Neurotoxicity:

No information available for the product.

Mutagenicity:

No information available for the product.

Teratogenicity:

No information available for the product.

Other Toxicological Information:

None available.

*** Section 12 - Ecological Information ***

Ecotoxicity:

A: General Product Information

No data available for this product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Ethylene glycol n-butyl ether (111-76-2)

Test & Species

LC50 (96 hr) bluegill

LC50 (24 hr) goldfish

1490 mg/L.

1650-1700 mg/L.

Conditions

Static, 23 °C.

Environmental Fate:

No data is available concerning the environmental fate, biodegradation or bioconcentration for this product.

*** Section 13 - Disposal Considerations ***

US EPA Waste Numbers & Descriptions:

A: General Product Information

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

Material Safety Data Sheet

Material Name: ANOFUMEGO

ID: 232268

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions:

Do not allow this material to drain into sewers/water supplies.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Please refer to the container label for transportation information.

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Ethylene glycol n-butyl ether (111-76-2)

SARA 313: form R reporting required for 1.0% de minimis concentration; Chemical Category N230; (applies to R-(OCH₂CH₂)_n-OR" ethers, where n = 1,2, or 3"; R=alkyl C7 or less or R = phenyl or alkyl subst. phenyl; R" = H or alkyl C7 or less, or OR" consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate) (related to Glycol ethers)

CERCLA: (Includes mono- and di- ethers of ethylene glycol; diethylene glycol and triethylene glycol R-(OCH₂CH₂)_n-OR" where n = 1 2 or 3; R = alkyl or aryl groups; R" = R h or groups which when removed yield glycol ethers with the structure R-(OCH₂CH₂)_n-OH. Polymers are excluded from glycol category); Statutory RQ = 1 pound (.454 kg); no final RQ is being assigned to the generic or broad class (related to Glycol ethers)

SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No Reactive: No

State Regulations

A: General Product Information

No additional information available.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Ethylene glycol n-butyl ether	111-76-2	Yes	Yes	Yes	Yes	Yes	Yes

Other Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Ethylene glycol n-butyl ether	111-76-2	Yes	Yes	Yes
Perfluorohexylethylsulfonic acid	27619-97-2	Yes	No	Yes
Fluorosurfactant	65545-80-4	Yes	Yes	No

C: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Ethylene glycol n-butyl ether	111-76-2	1% item 721 (824)

Material Safety Data Sheet

Material Name: ANOFUMEGO

ID: 232268

*** Section 16 - Other Information ***

NFPA Ratings: Health: 2 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

HMIS Ratings: Health: 2* Fire: 0 Reactivity: 0 Pers. Prot.:

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Henkel Surface Technologies bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

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This is the end of MSDS # 232268