



ARDEX LABS.

Safety Data Sheet

Dazzlemint

SECTION 1: Identification

Product identifier

Product name Dazzlemint

Product number 6216

Recommended use of the chemical and restrictions on use

Glass cleaner

Supplier's details

Name Ardex Labs.
Address 2050 Byberry Rd
Philadelphia, PA 19116
United States of America

Telephone 2156980500
email info@ardexlabs.com

Emergency phone number(s)

800-424-9300
CHEMTREC – TOLL FREE 24 HOUR EMERGENCY TELEPHONE
NUMBER

SECTION 2: Hazard identification

Classification of the substance or mixture

GHS classification in accordance with OSHA (29 CFR 1910.1200)

- Skin corrosion/irritation (chapter 3.2), Cat. 3
- Flammable liquids (chapter 2.6), Cat. 4
- Acute toxicity, oral (chapter 3.1), Cat. 4

GHS label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H227

Combustible liquid

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H302 Harmful if swallowed
H316 Causes mild skin irritation

Precautionary statement(s)

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P264 Wash hands and exposed skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell,
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage

P403+P235 Store in a well ventilated place. Keep cool.

Disposal

P501 Dispose of contents/container to local, state, and federal regulations

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
ETHYLENE GLYCOL MONOBUTYL ETHER (CAS no.: 111-76-2; EC no.: 203-905-0; Index no.: 603-014-00-0)	< 10 % (Weight)
CLASSIFICATIONS: Acute toxicity, oral (chapter 3.1), Cat. 4; Flammable liquids (chapter 2.6), Cat. 4; Acute toxicity, dermal (chapter 3.1), Cat. 4; Skin corrosion/irritation (chapter 3.2), Cat. 2; Eye damage/irritation (chapter 3.3), Cat. 2A; Acute toxicity, inhalation (chapter 3.1), Cat. 4. HAZARDS: No data available.	
ISOPROPANOL (CAS no.: 67-63-0; EC no.: 200-661-7; Index no.: 603-117-00-0)	< 10 % (Weight)
CLASSIFICATIONS: Flammable liquids (chapter 2.6), Cat. 2; Eye damage/irritation (chapter 3.3), Cat. 2; Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3. HAZARDS: H225 - Highly flammable liquid and vapor; H319 - Causes serious eye irritation; H336 - May cause drowsiness or dizziness.	

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

If inhaled Move person to fresh air; if effects occur, consult a physician.

In case of skin contact Wash off with plenty of water. Suitable emergency safety shower facility should be available in work area.

In case of eye contact Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes.

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Obtain medical attention without delay, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

If swallowed

Do not induce vomiting. Call a physician and/or transport to emergency facility immediately.

Most important symptoms/effects, acute and delayed

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of immediate medical attention and special treatment needed, if necessary

Due to structural analogy and clinical data, this material may have a mechanism of intoxication similar to ethylene glycol. On that basis, treatment similar to ethylene glycol intoxication may be of benefit. In cases where several ounces (60 - 100 ml) have been ingested, consider the use of ethanol and hemodialysis in the treatment. Consult standard literature for details of treatment. If ethanol is used, a therapeutically effective blood concentration in the range of 100 - 150 mg/dl may be achieved by a rapid loading dose followed by a continuous intravenous infusion. Consult standard literature for details of treatment. 4-Methyl pyrazole (Antizol®) is an effective blocker of alcohol dehydrogenase and should be used in the treatment of ethylene glycol (EG), di- or triethylene glycol (DEG, TEG), ethylene glycol butyl ether (EGBE), or methanol intoxication if available. Fomepizole protocol (Brent, J. et al., New England Journal of Medicine, Feb. 8, 2001, 344:6, p. 424-9): loading dose 15 mg/kg intravenously, follow by bolus dose of 10 mg/kg every 12 hours; after 48 hours, increase bolus dose to 15 mg/kg every 12 hours. Continue fomepizole until serum methanol, EG, DEG, TEG or EGBE are undetectable. The signs and symptoms of poisoning include anion gap metabolic acidosis, CNS depression, renal tubular injury, and possible late stage cranial nerve involvement. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. Maintain adequate ventilation and oxygenation of the patient. In severe poisoning, respiratory support with mechanical ventilation and positive end expiratory pressure may be required. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Repeated excessive exposure may aggravate preexisting blood disease (anemia).

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

Unsuitable extinguishing media: no data available

Specific hazards arising from the chemical

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide

Unusual Fire and Explosion Hazards: Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

Special protective actions for fire-fighters

Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Move container from fire area if

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this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Isolate area. Keep unnecessary and unprotected personnel from entering the area. No smoking in area. Refer to section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information

Methods and materials for containment and cleaning up

Contain spilled material if possible. Small spills: Absorb with materials such as: Non-combustible material. Clay. Zorb-all®. Large spills: Dike area to contain spill. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

SECTION 7: Handling and storage

Precautions for safe handling

Do not swallow. Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Wash thoroughly after handling. Keep away from heat, sparks and flame. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion.

Conditions for safe storage, including any incompatibilities

Store in the following material(s): Carbon steel. Stainless steel. Phenolic lined steel drums. Do not store in: Aluminum. Copper. Galvanized iron. Galvanized steel. See Section 10 for more specific information.

Specific end use(s)

Glass Cleaner

SECTION 8: Exposure controls/personal protection

Control parameters

CAS: 111-76-2

2-Butoxyethanol

Cal/OSHA: 20 ppm PEL inhalation; NIOSH: 5 ppm REL inhalation; OSHA: 50 ppm PEL inhalation; 240 mg/m³ PEL inhalation

ETHYLENE GLYCOL MONOBUTYL ETHER

OSHA: dermal

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CAS: 67-63-0

Isopropyl alcohol

Cal/OSHA: 400 ppm, (ST) 500 ppm PEL inhalation; NIOSH: 400 ppm, (ST) 500 ppm REL inhalation; OSHA: 400 ppm PEL inhalation; 980 mg/m³ PEL inhalation

Appropriate engineering controls

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Individual protection measures, such as personal protective equipment (PPE)

Pictograms



Eye/face protection

Use chemical goggles. If exposure causes eye discomfort, use a full-face respirator.

Skin protection

Hand protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Butyl rubber. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Other protection: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

Body protection

Wear clothing suitable for the task.

Respiratory protection

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

The following should be effective types of air-purifying respirators: Organic vapor cartridge

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form	CLEAR YELLOW/Green, THIN LIQUID
Odor	ALCOHOL/minty- ODOR.
Odor threshold	No data available.
pH	7
Melting point/freezing point	10 DEG. F
Initial boiling point and boiling range	175-265 DEF. F
Flash point	150F (65C)

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Evaporation rate	1.1
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Vapor pressure	11.5 (@20 DEG. C)
Vapor density	No data available.
Relative density	0.8-1.20 (@20 DEG. C)
Solubility(ies)	Miscible
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

SECTION 10: Stability and reactivity

Reactivity

No data available.

Chemical stability

Thermally stable at typical use temperatures, when used and stored as directed.

Possibility of hazardous reactions

Hazardous Polymerization will not occur

Conditions to avoid

Do not distill to dryness. Product can oxidize at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.

Incompatible materials

Avoid contact with: Strong acids. Strong oxidizers.

Hazardous decomposition products

Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Aldehydes. Ketones. Organic acids.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

ETHYLENE GLYCOL MONOBUTYL ETHER
LD50 Oral - Guinea pig - 1400 mg/kg
Citation: DOW Chemical rev. date: 04/21/2015

ETHYLENE GLYCOL MONOBUTYL ETHER
LD50 Oral - Rat - 1300 mg/kg
Citation: DOW Chemical rev. date: 04/21/2015

ETHYLENE GLYCOL MONOBUTYL ETHER
LD50 Skin - Guinea pig - >2000 mg/kg
Citation: DOW Chemical rev. date: 04/21/2015

ETHYLENE GLYCOL MONOBUTYL ETHER

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LC50 Inhalation - Guinea pig - >3.1 mg/l - 1hr
Result: No deaths occurred at this value
Remarks: vapor
Citation: DOW Chemical rev. date: 04/21/2015

ISOPROPANOL
LC50 Inhalation - Rat - 45248 ppm - 1hr
Citation: AIRGAS rev. date: 5/20/2015

ISOPROPANOL
LD50 Skin - Rabbit - 12800 mg/kg
Citation: AIRGAS rev. date: 5/20/2015

ISOPROPANOL
LD50 Oral - Rat - 5000 mg/kg
Citation: AIRGAS rev. date: 5/20/2015

Skin corrosion/irritation

ISOPROPANOL
Skin - Rabbit - 500mg
Result: Mild irritant
Citation: AIRGAS rev. date: 5/20/2015

Serious eye damage/irritation

ISOPROPANOL
Eyes - Rabbit - 100mg - 24hr
Result: Moderate irritant
Citation: AIRGAS rev. date: 5/20/2015

Respiratory or skin sensitization

ETHYLENE GLYCOL MONOBUTYL ETHER

Result: Did not cause allergic skin reactions when tested in humans.
Did not cause allergic skin reactions when tested in guinea pigs.
Citation: DOW Chemical rev. date: 04/21/2015

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Summary of evaluation of the CMR properties

No data available.

STOT-single exposure

ISOPROPANOL

Result: Category 3: Narcotic effects
Citation: AIRGAS rev. date: 5/20/2015

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STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

No data available.

SECTION 12: Ecological information

Toxicity

ETHYLENE GLYCOL MONOBUTYL ETHER

LC50 - Oncorhynchus mykiss (rainbow trout) - 1474 mg/l - 96hr

Result: Acute Toxicity

Remarks: OECD Test guideline 203

Citation: DOW Chemical rev. date: 04/21/2015

ETHYLENE GLYCOL MONOBUTYL ETHER

EC50 - Daphnia magna (water flea) - 1550 mg/l - 48hr

Result: Acute Toxicity

Remarks: OECD Test guideline 203

Citation: DOW Chemical rev. date: 04/21/2015

ETHYLENE GLYCOL MONOBUTYL ETHER

EbC50 - Pseudokirchneriella subcapitata (green algae) - 911 mg/l - 72hr

Result: Acute Toxicity: Biomass

Citation: DOW Chemical rev. date: 04/21/2015

ETHYLENE GLYCOL MONOBUTYL ETHER

IC50 - Bacteria - >1000 mg/l

Result: Acute Toxicity: Growth inhibition

Citation: DOW Chemical rev. date: 04/21/2015

ETHYLENE GLYCOL MONOBUTYL ETHER

NOEC - Danio rerio (zebra fish) - >100 mg/l - 21days

Result: Chronic Toxicity

Citation: DOW Chemical rev. date: 04/21/2015

ETHYLENE GLYCOL MONOBUTYL ETHER

NOEC - Daphnia magna (water flea) - >100 mg/l - 21days

Result: Chronic Toxicity

Citation: DOW Chemical rev. date: 04/21/2015

ISOPROPANOL

LC50 - Crustaceans - Crangon crangon - 1400000 to 1950000 µg/l - 48hr

Citation: AIRGAS rev. date: 5/20/2015

ISOPROPANOL

LC50 - Fish - Rasbora heteromorpha - 4200 mg/l - 96hr

Citation: AIRGAS rev. date: 5/20/2015

Persistence and degradability

No data available.

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Bioaccumulative potential

ETHYLENE GLYCOL MONOBUTYL ETHER

OECD

Result: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. Material is ultimately biodegradable (reaches > 70% mineralization in OECD test(s) for inherent biodegradability).

10-day Window: Pass

Biodegradation: 90.4 %

Exposure time: 28 d

Method: OECD Test Guideline 301B or Equivalent

Theoretical Oxygen Demand: 2.30 mg/mg

Citation: DOW Chemical rev. date: 04/21/2015

ETHYLENE GLYCOL MONOBUTYL ETHER

OECD

Result: Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): 0.81 Measured

Bioconcentration factor (BCF): 3.2

Citation: DOW Chemical rev. date: 04/21/2015

ISOPROPANOL

LogPow - 0.05

Result: Potential: low

Mobility in soil

ETHYLENE GLYCOL MONOBUTYL ETHER

Result: Potential for mobility in soil is high (Koc between 50 and 150).

Partition coefficient(Koc): 67 Estimated.

Citation: DOW Chemical rev. date: 04/21/2015

Results of PBT and vPvB assessment

No data available.

Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal of the product

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

Disposal of contaminated packaging

Dispose of in accordance with local, state, and federal regulations.

Waste treatment

FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device.

Sewage disposal

Do NOT dispose of in sewers.

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SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question**New Jersey Right To Know Components**

Common name: 2-BUTOXY ETHANOL

CAS number: 111-76-2

Common name: ISOPROPYL ALCOHOL

CAS number: 67-63-0

Pennsylvania Right To Know Components

Chemical name: Ethanol, 2-butoxy-

CAS number: 111-76-2

Chemical name: 2-Propanol

CAS number: 67-63-0

SARA 311/312 Hazards

Chemical name: Ethanol, 2-butoxy-

CAS number: 111-76-2.....Acute Health Hazard, Fire Hazard, Chronic Health Hazard

Chemical name: 2-Propanol

CAS number: 67-63-0.....Fire hazard, Immediate (Acute) health hazard

SARA 313 Components

Chemical name: Ethanol, 2-butoxy-

CAS number: 111-76-2

Chemical name: 2-Propanol

CAS number: 67-63-0.....Form R - Reporting requirements

Toxic Substances Control Act (TSCA) Inventory

Chemical name: Ethanol, 2-butoxy-

CAS number: 111-76-2.....Compliant

Massachusetts Right To Know Components

Chemical name: Isopropyl alcohol (mfg-strong acid process)

CAS number: 67-63-0

SECTION 16: Other information

Revision Date:

05/10/2016

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Other Information:

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Party Responsible for the Preparation of This Document

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012