

Material Safety Data Sheet

1. MATERIAL AND COMPANY IDENTIFICATION

Material Name : **Medo Auto Expressions Ozium Glycol-ized Air Sanitizer**
Uses : Sanitizer

Manufacturer/Supplier : **Auto Expressions, LLC.**
 505 Euclid
 Compton, CA 90224
 USA

MSDS Request : 877-572-2602

Emergency Telephone Number
Spill Information : 877-675-7226
Health Information : +1-303-389-1658

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity	CAS No.	Concentration
Isopropyl alcohol	67-63-0	30.00 - 60.00 %
Propane	74-98-6	1.00 - 5.00 %

Aerosol spray consisting of solvent and hydrocarbon propellant.

3. HAZARDS IDENTIFICATION

Emergency Overview	
Appearance and Odour	: Clear. Aerosol. Varies with fragrance.
Health Hazards	: Vapours may cause drowsiness and dizziness. Irritating to eyes.
Safety Hazards	: Contents under pressure and can explode when exposed to heat or open flame. Extremely flammable.
Environmental Hazards	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Health Hazards

Inhalation : Vapours expected to be slightly irritating. May cause drowsiness and dizziness.

Skin Contact : Repeated exposure may cause skin dryness or cracking. No specific hazards under normal use conditions.

Eye Contact : Irritating to eyes.

Ingestion : Harmful: may cause lung damage if swallowed. Under normal conditions of use, this is not expected to be a primary route of exposure.

Other Information : Possibility of organ or organ system damage from prolonged exposure; see Chapter 11 for details. Target organ(s): Liver.

Signs and Symptoms : Breathing of high vapour concentrations may cause central

Material Safety Data Sheet

nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death. Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance. Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Ingestion may cause inebriation. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. The onset of respiratory symptoms may be delayed for several hours after exposure. Liver damage may be indicated by loss of appetite, jaundice (yellowish skin and eye colour), fatigue, bleeding or easy bruising and sometimes pain and swelling in the upper right abdomen.

- Aggravated Medical Condition** : Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Eyes. Central nervous system (CNS).
- Environmental Hazards** : No specific hazards under normal use conditions.
- Additional Information** : Under normal conditions of use or in a foreseeable emergency, this product meets the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

4. FIRST AID MEASURES

- General Information** : Keep victim calm. Obtain medical treatment immediately.
- Inhalation** : Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
- Skin Contact** : No treatment necessary under normal conditions of use.
- Eye Contact** : Immediately flush eyes with large amounts of water for at least 30 minutes while holding eyelids open. Transport to the nearest medical facility for additional treatment.
- Ingestion** : In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
- Advice to Physician** : Treat symptomatically. Persons on disulfiram (Antabuse®) therapy should be aware that the ethyl alcohol in this product is hazardous to them just as is alcohol from any source. Disulfiram reactions (vomiting, headache and even collapse) may follow ingestion of small amounts of alcohol and have also been described from skin contact.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

- Flash point** : 68.89 °C / 156.00 °F (COC)
- Specific Hazards** : Contents are under pressure and can explode when exposed to heat or flames.
- Suitable Extinguishing Media** : Aerosol containers may be cooled by a water fog.

Material Safety Data Sheet

6. ACCIDENTAL RELEASE MEASURES

- Protective measures** : Remove all possible sources of ignition in the surrounding area. No specific measures.
- Clean Up Methods** : Not applicable.
- Additional Advice** : Observe the relevant local and international regulations.

7. HANDLING AND STORAGE

- Handling** : Do not puncture or incinerate. Contents under pressure and can explode when exposed to heat or open flame.
- Storage** : Must be stored in a well-ventilated area, away from sunlight, ignition sources and other sources of heat.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Material	Source	Type	ppm	mg/m3	Notation
Isopropyl alcohol	OSHA Z1	PEL	400 ppm	980 mg/m3	
Isopropyl alcohol	OSHA Z1A	TWA	400 ppm	980 mg/m3	
Isopropyl alcohol	OSHA Z1A	STEL	500 ppm	1,225 mg/m3	
Isopropyl alcohol	ACGIH	TWA	200 ppm		
Isopropyl alcohol	ACGIH	STEL	400 ppm		
Propane	OSHA Z1	PEL	1,000 ppm	1,800 mg/m3	
Propane	OSHA Z1A	TWA	1,000 ppm	1,800 mg/m3	
Propane	ACGIH	TWA	1,000 ppm		

- Additional Information** : Adequate ventilation to control airborne concentrations below the exposure guidelines/limits.
Shell has adopted as Interim Standards the OSHA Z1A values that were established in 1989 and later rescinded.
- Exposure Controls** : Adequate ventilation to control airborne concentrations below the exposure guidelines/limits.
- Personal Protective Equipment** : Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.
- Respiratory Protection** : Check with respiratory protective equipment suppliers.
- Hand Protection** : Not normally required.
- Eye Protection** : Chemical splash goggles (chemical monogoggles).
- Environmental Exposure Controls** : Use only in well-ventilated areas.

Material Safety Data Sheet**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Clear. Aerosol.
 Odour : Varies with fragrance.
 Flash point : 68.89 °C / 156.00 °F (COC)

10. STABILITY AND REACTIVITY

Stability : Stable under normal conditions of use.
 Conditions to Avoid : Open flame.
 Materials to Avoid : Not applicable.
 Hazardous Decomposition Products : None expected under normal use conditions.
 Hazardous Polymerisation : No
 Sensitivity to Mechanical Impact : No

11. TOXICOLOGICAL INFORMATION

Basis for Assessment : Information given is based on data from components.
 Acute Oral Toxicity : Expected to be of low toxicity: LD50 >2000 mg/kg
 Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.
 Ingestion may cause drowsiness and dizziness.
 Acute Dermal Toxicity : Expected to be of low toxicity: LD50 >2000 mg/kg , Rabbit
 Acute Inhalation Toxicity : Expected to be of low toxicity: LC50 >20 mg/l Rat
 High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea.
 Skin Irritation : Expected to be slightly irritating.
 Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.
 Eye Irritation : Irritating to eyes.
 Respiratory Irritation : Slightly irritating.
 Sensitisation : Not expected to be a sensitiser.
 Repeated Dose Toxicity : Can cause liver damage.
 Mutagenicity : No evidence of mutagenic activity.
 Carcinogenicity : Not carcinogenic in animal studies.

Material	Carcinogenicity Classification
Isopropyl alcohol	IARC 3: Classification not possible from current data.

Reproductive and Developmental Toxicity : Ethanol, a component of this material, may cause birth defects and/or miscarriages.

12. ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product.

Acute Toxicity : Data not available

Material Safety Data Sheet

Mobility : Disperses in water.
Persistence/degradability : Data not available
Bioaccumulation : Data not available
Other Adverse Effects : Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

13. DISPOSAL CONSIDERATIONS

Material Disposal : Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.
Local Legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations.

14. TRANSPORT INFORMATION

US Department of Transportation Classification (49CFR)

Class / Division Consumer Commodity, ORM-D

IMDG

Identification number UN 1950
Proper shipping name AEROSOLS
Class / Division 2.1
Marine pollutant: No

IATA (Country variations may apply)

Identification number ID 8000
Proper shipping name Consumer Commodity
Class / Division 9

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Federal Regulatory Status

Notification Status

EINECS All components listed or polymer exempt.
TSCA All components listed.

Comprehensive Environmental Release, Compensation & Liability Act (CERCLA)

Medo Auto Expressions Ozium Glycol-ized Air Sanitizer

MSDS# 624185LU

Version 2.0

Effective Date 06/28/2010

According to OSHA Hazard Communication Standard, 29 CFR

1910.1200

Material Safety Data Sheet

Medo Auto Expressions Ozium Glycol-ized Air Sanitizer ()	Reportable quantity: 214 lbs
Isopropyl alcohol (67-63-0)	Reportable quantity: 100 lbs
Propane (74-98-6)	Reportable quantity: 100 lbs

SARA Hazard Categories (311/312)

Immediate (Acute) Health Hazard. Fire Hazard. Sudden Release of Pressure Hazard.

SARA Toxic Release Inventory (TRI) (313)

Isopropyl alcohol (67-63-0)	46.74%
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State Regulatory Status

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This material does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

New Jersey Right-To-Know Chemical List

Isopropyl alcohol (67-63-0)	Listed.
	Listed.
1,1-Difluoroethane (75-37-6)	Listed.
Propane (74-98-6)	Listed.

Pennsylvania Right-To-Know Chemical List

Isopropyl alcohol (67-63-0)	Environmental hazard.
	Listed.
Propylene glycol (57-55-6)	Listed.
Triethylene glycol (112-27-6)	Listed.
Propane (74-98-6)	Listed.

16. OTHER INFORMATION

NFPA Rating (Health, Fire, Reactivity)	: 2, 3, 0
MSDS Version Number	: 2.0
MSDS Effective Date	: 06/28/2010

Material Safety Data Sheet

- MSDS Revisions** : A vertical bar (|) in the left margin indicates an amendment from the previous version.
- MSDS Regulation** : The content and format of this MSDS is in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
- MSDS Distribution** : The information in this document should be made available to all who may handle the product.
- Disclaimer** : The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.