

Material Safety Data Sheet

Issuing Date 30-Jul-2013

Revision Date 09-Jan-2014

Revision Number 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Glade Membrane

Recommended Use Air freshener

Synonyms Scented Oil.

Supplier Address

Auto Expressions, LLC.
505 E. Euclid
Compton, CA 90224
USA
TEL: 877-572-2602/+1-310-639-0666

Emergency Telephone Number 877-675-7226 or +1-303-389-1658

2. HAZARDS IDENTIFICATION

CAUTION!

Emergency Overview

Irritating to eyes
May be harmful if swallowed
This is not a toy
Keep out of reach of children and pets
Keep away from heat, sparks and flames

Appearance Varies

Physical State Liquid.

Odor Varies

Potential Health Effects

Principle Routes of Exposure Inhalation. Skin contact. Eye contact.

Acute Toxicity

Eyes

Irritating to eyes.

Skin

May cause irritation.

Inhalation

No significant hazard when used as directed.

Ingestion

No significant hazard when used as directed.

Chronic Effects

None known.

Aggravated Medical Conditions

Pre-existing eye disorders. Skin disorders.

Environmental Hazard

See Section 12 for additional Ecological Information. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % |
|---|-------------|----------|
| Lynalyl acetate (ex bois de rose, synthetic) | 115-95-7 | 7.5-10 |
| Cyclohexanol, 2-(1,1-dimethylethyl)-, acetate | 88-41-5 | 2.5-7.5 |
| Cyclohexanol, 4-(1,1-dimethylethyl)-, acetate | 32210-23-4 | 2.5-7.5 |
| 3.alpha.,4,5,6,7,7.alpha.-hexahydro-4,7-methanoinden-6-yl acetate | 5413-60-5 | 2.5-7.5 |
| Linalool | 78-70-6 | 2.5-5 |
| Dimethylbenzylcarbonyl acetate | 151-05-3 | 2.5-5 |
| Dihydromyrcenol | 18479-58-8 | 2.5-5 |
| 2(3H)-Furanone, 5-heptyldihydro- | 104-67-6 | 1-5 |
| Triplal | 68039-49-6 | 0.1-2.5 |
| Terpinyl acetate | 80-26-2 | 1-2.5 |
| Terpineol | 8000-41-7 | 1-2.5 |
| n-Hexyl acetate | 142-92-7 | 1-2.5 |
| Ionone, .beta. (.beta.-Ionone) | 14901-07-6 | 0.5-2.5 |
| Benzyl alcohol | 100-51-6 | 1-2.5 |
| Cyclohexanepropanoic acid, 2-propenyl ester | 2705-87-5 | 1-2.5 |
| 3-Buten-2-one, | 127-51-5 | 1-2.5 |
| 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)- | | |
| 4,7-Methano-1H-inden-6-ol, | 17511-60-3 | 1-2.5 |
| 3a,4,5,6,7,7a-hexahydro-, propanoate | | |
| Methyl 2-naphthyl ether | 93-04-9 | 0.5-1.0 |
| Eugenol | 97-53-0 | 0.5-1.0 |
| Citral | 5392-40-5 | 0.5-1.0 |
| Cinnamaldehyde | 104-55-2 | 0.5-1.0 |
| Benzenepropanal, .alpha.-methyl-4-(1-methylethyl)- | 103-95-7 | 0.5-1.0 |
| 1-Penten-3-one, | 127-42-4 | 0.5-1.0 |
| 1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-, [R-(E)]- | | |
| 2H-Pyran, | 16409-43-1 | 0.1-0.5 |
| tetrahydro-4-methyl-2-(2-methyl-1-propenyl)- | | |
| Oxacyclohexadecan-2-one | 106-02-5 | 0.1-0.5 |
| Isocyclocitral | 1335-66-6 | 0.1-0.5 |
| Carvone | 99-49-0 | 0.1-0.5 |
| 4,7-Methano-1H-indene-2-carboxaldehyde, | 86803-90-9 | 0.1-0.5 |
| octahydro-5-methoxy- | | |
| 2-Buten-1-ol, | 28219-61-6 | 0.1-0.5 |
| 2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)- | | |
| 2,3-Dihydro-1,1-dimethyl-1H-indene- | 300371-33-9 | 0.1-0.5 |
| 1-Penten-3-one, | 127-43-5 | 0.1-0.5 |
| 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)- | | |
| Butanoic acid, 1,1-dimethyl-2-phenylethyl ester | 10094-34-5 | 0.1-0.5 |

4. FIRST AID MEASURES

| | |
|-----------------------------------|--|
| General Advice | Under normal conditions of use first aid is not required. In case of rupture: |
| Eye Contact | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician immediately. |
| Skin Contact | Wash off immediately with soap and plenty of water. Obtain medical attention if irritation persists. |
| Inhalation | Move to fresh air. |
| Ingestion | Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately if symptoms occur. |
| Notes to Physician | Treat symptomatically. |
| Protection of First-aiders | Avoid contact with skin, eyes and clothing. |

5. FIRE-FIGHTING MEASURES

| | |
|--|--|
| Flammable Properties | Combustible liquid. |
| Flash Point | 159-170.6 °F / 71 - 77 °C (for liquid) |
| Suitable Extinguishing Media | Use: Carbon dioxide (CO ₂). Dry chemical. Water spray. |
| Explosion Data | |
| Sensitivity to Mechanical Impact | None. |
| Sensitivity to Static Discharge | Yes. |
| Protective Equipment and Precautions for Firefighters | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |
| NFPA | Health Hazard 2 Flammability 2 Instability 0 Physical and Chemical Hazards - |
| HMIS | Health Hazard 2 Flammability 2 Physical Hazard 0 Personal Protection X |

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|--|
| Personal Precautions | Use personal protective equipment. Avoid contact with the skin and the eyes. |
| Environmental Precautions | Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. |
| Methods for Containment | Prevent further leakage or spillage if safe to do so. |
| Methods for Cleaning Up | Pick up and transfer to properly labeled containers. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal. |

7. HANDLING AND STORAGE

| | |
|-----------------|---|
| Handling | In case of rupture: Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from heat, sparks and flames. |
| Storage | Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---------------------|--|----------|------------|
| Citral 5392-40-5 | TWA: 5 ppm inhalable fraction and vapor S* | - | |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Engineering Measures

None under normal use conditions. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/Face Protection

None required under normal usage. Tightly fitting safety goggles.

Skin and Body Protection

None required under normal usage. Wear protective gloves/clothing.

Respiratory Protection

None required under normal usage. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---------------------------|--|-----------------------------|---------------------------|
| Appearance | Varies. | Odor | Varies. |
| Odor Threshold | No information available. | Physical State | Liquid |
| pH | No information available. | | |
| Flash Point | 159-170.6 °F / 71 - 77 °C (for liquid) | Autoignition Temperature | No information available. |
| Decomposition Temperature | No information available. | Boiling Point/Boiling Range | No information available. |
| Melting Point/Range | No information available. | Flammability Limits in Air | No information available. |
| Solubility | No information available. | Evaporation Rate | No information available. |
| Vapor Pressure | No data available. | Vapor Density | No data available. |
| VOC Content (%) | <60 | | |

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|--|
| Stability | Stable under recommended storage conditions. |
| Incompatible Products | Strong oxidizing agents. |
| Conditions to Avoid | High temperatures. |
| Hazardous Decomposition Products | Carbon oxides. |
| Hazardous Polymerization | Hazardous polymerization does not occur. |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|-----------------------|---|------------------------|
| Linalyl acetate (ex bois de rose, synthetic) | = 13934 mg/kg (Rat) | | |
| Cyclohexanol, 4-(1,1-dimethylethyl)-, acetate | = 5 g/kg (Rat) | | |
| Cyclohexanol, 2-(1,1-dimethylethyl)-, acetate | = 4600 mg/kg (Rat) | > 5 g/kg (Rabbit) | |
| Dimethylbenzylcarbinyl acetate | = 3300 mg/kg (Rat) | | |
| Linalool | 2790 mg/kg (Rat) | 5610 mg/kg (Rat) | - |
| 2(3H)-Furanone, 5-heptyldihydro- | = 18500 mg/kg (Rat) | | |
| Dihydromyrcenol | = 3600 mg/kg (Rat) | > 5 g/kg (Rabbit) | |
| Cyclohexanepropanoic acid, 2-propenyl ester | = 585 mg/kg (Rat) | | |
| n-Hexyl acetate | = 41500 µL/kg (Rat) | > 5 g/kg (Rabbit) | |
| Ionone, .beta. (.beta.-ionone) | = 4590 mg/kg (Rat) | | |
| Benzyl alcohol | = 1230 mg/kg (Rat) | = 2000 mg/kg (Rabbit) | = 8.8 mg/L (Rat) 4 h |
| Terpinyl acetate | = 5075 mg/kg (Rat) | | |
| Terpineol | = 2900 mg/kg (Rat) | > 3000 mg/kg (Rabbit) | |
| 4,7-Methano-1H-inden-8-ol, 3a,4,5,6,7,7a-hexahydro-, propanoate | > 5 g/kg (Rat) | > 5 g/kg (Rabbit) | |
| Methyl 2-naphthyl ether | > 5 g/kg (Rat) | > 5 g/kg (Rabbit) | |
| Eugenol | = 1930 mg/kg (Rat) | | |
| Citral | = 4950 mg/kg (Rat) | = 2250 mg/kg (Rabbit) > 2000 mg/kg (Rat) | |
| Benzenepropanal, .alpha.-methyl-4-(1-methylethyl)- | = 3810 mg/kg (Rat) | > 5 g/kg (Rat) | |
| Cinnamaldehyde | = 2200 mg/kg (Rat) | > 2000 mg/kg (Rabbit) > 2000 mg/kg (Rat) | |
| Oxacyclohexadecan-2-one | > 5 g/kg (Rat) | > 5 g/kg (Rabbit) | |
| Butanoic acid, 1,1-dimethyl-2-phenylethyl ester | > 5 g/kg (Rat) | > 5 g/kg (Rabbit) | |
| Isocyclocitral | = 4500 mg/kg (Rat) | | |
| 2H-Pyran, tetrahydro-4-methyl-2-(2-methyl-1-propenyl)- | = 4300 mg/kg (Rat) | | |
| 4,7-Methano-1H-indene-2-carboxaldehyde, octahydro-5-methoxy- | = 2800 mg/kg (Rat) | > 2 g/kg (Rabbit) | |
| Carvone | = 1640 mg/kg (Rat) | | |

Inhalation

No significant hazard when used as directed.

Eye Contact

Irritating to eyes.

Skin Contact

May cause irritation.

Ingestion

No significant hazard when used as directed.

Component Information

Chronic Toxicity

Chronic Toxicity

None known.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---------------|-------|---------|-----|------|
| Eugenol | | Group 3 | | |

IARC: (International Agency for Research on Cancer)

Group 3: Not Classifiable as to its Carcinogenicity to Humans

Target Organ Effects

None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|---|--|---|--|---------------------------------------|
| Cyclohexanol, 4-(1,1-dimethylethyl)-, acetate | | LC50 48 h: = 15.5 mg/L static (Leuciscus idus) | | EC50 24 h: = 9.6 mg/L (Daphnia magna) |
| Linalool | EC50 96 h: = 88.3 mg/L (Desmodesmus subspicatus) | LC50 96 h: 22-46 mg/L static (Leuciscus idus) | | EC50 48 h: = 20 mg/L (Daphnia magna) |
| n-Hexyl acetate | | LC50 96 h: 3.7-4.4 mg/L flow-through (Pimephales promelas) | | |
| Benzyl alcohol | EC50 3 h: = 35 mg/L (Anabaena variabilis) | LC50 96 h: = 10 mg/L static (Lepomis macrochirus) LC50 96 h: = 460 mg/L static (Pimephales promelas) | EC50 = 50 mg/L 5 min EC50 = 63.7 mg/L 15 min EC50 = 63.7 mg/L 5 min EC50 = 71.4 mg/L 30 min | EC50 48 h: = 23 mg/L (water flea) |
| Eugenol | | LC50 67.6 mg/l Oncorhynchus kisutch (Coho salmon) 96 h static | | |
| Citral | EC50 72 h: = 16 mg/L (Desmodesmus subspicatus) EC50 96 h: = 19 mg/L (Desmodesmus subspicatus) | LC50 96 h: 4.6-10 mg/L static (Leuciscus idus) | EC50 = 2100 mg/L 30 min | EC50 48 h: = 7 mg/L (Daphnia magna) |
| Chemical Name | | Log Pow | | |
| Linalool | | 3.1 | | |
| Benzyl alcohol | | 1.1 | | |
| Eugenol | | 2.27 | | |
| Citral | | 2.76 | | |
| Cinnamaldehyde | | 2.22 | | |

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT

Not regulated

TDG

Not regulated

MEX

Not regulated

Marine Pollutant

Product is a marine pollutant according to the criteria set by IMDG/IMO

15. REGULATORY INFORMATION**International Inventories**

| | |
|------|----------|
| TSCA | Complies |
| DSL | Complies |

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | No |
| Fire Hazard | Yes |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations.

International Regulations

| | |
|----------------|------------------------|
| Mexico - Grade | Moderate risk, Grade 2 |
|----------------|------------------------|

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

| | |
|-----|--------------------|
| B3 | Combustible liquid |
| D2B | Toxic materials |



16. OTHER INFORMATION

| | |
|---------------|--|
| Prepared By | Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501 |
| Issuing Date | 30-Jul-2013 |
| Revision Date | 09-Jan-2014 |
| Revision Note | Change to classification. Update to toxicity statements. |

General Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet