

# SAFETY DATA SHEET

## GALLERY HARDENER (PART B)

SDS Number: NP-002

Revision Date: 10/9/2018

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### 1 PRODUCT AND COMPANY IDENTIFICATION

#### Manufacturer

Naturalis Paint  
999 Lee Street,  
Elk Grove Village, IL 60007

Emergency: CHEMTREC (800) 424-9300 TOLL FREE (877) 6 COLORS

**Product Identifier:** GALLERY HARDENER (PART B)  
**Common Name:** EPOXY RESIN  
**SDS Number:** NP-002  
**Product Code:** 2010-1031-2 PART B  
**Revision Date:** 10/9/2018  
**Chemical Family:** EPOXY RESIN  
**Product Description:** GALLERY HARDENER (PART B)  
**Product Use:** Artist materials

### 2 HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Skin corrosion/irritation, 2  
Health, Serious Eye Damage/Eye Irritation, 2 A  
Health, Skin sensitization, 1  
Health, Specific target organ toxicity - Single exposure, 3  
Health, Acute toxicity, 4 Oral  
Health, Acute toxicity, 4 Dermal  
Health, Serious Eye Damage/Eye Irritation, 1  
Health, Specific target organ toxicity - Repeated exposure, 1

#### GHS Label Elements, Including Precautionary Statements

**GHS Signal Word:** DANGER

**GHS Hazard Pictograms:**



#### GHS Hazard Statements:

H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H317 - May cause an allergic skin reaction  
H335 - May cause respiratory irritation  
H302 - Harmful if swallowed  
H312 - Harmful in contact with skin  
H318 - Causes serious eye damage  
H372 - Causes damage to organs through prolonged or repeated exposure

#### GHS Precautionary Statements:

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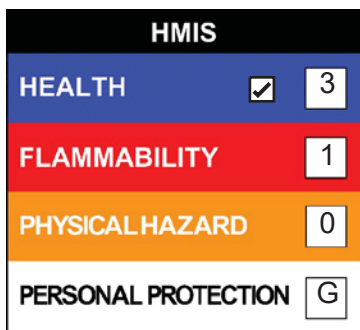
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- P102 - Keep out of reach of children.
- P103 - Read label before use.
- P233 - Keep container tightly closed.
- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
- P262 - Do not get in eyes, on skin, or on clothing.
- P264 - Wash \_ thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P302+352 - IF ON SKIN: Wash with soap and water.
- P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
- P332+313 - If skin irritation occurs: Get medical advice/attention.
- P362 - Take off contaminated clothing and wash before reuse.
- P370+378 - In case of fire: Use \_ for extinction.
- P403+235 - Store in a well ventilated place. Keep cool.
- P412 - Do not expose to temperatures exceeding 50 °C/122 °F
- P501 - Dispose of contents/container to \_
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
- CGA-MP01 - IF ACCIDENTLY INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.

**NFPA:** Health = 3, Fire = 1, Reactivity = 0, Specific Hazard = n/a  
**HMIS III:** Health = 3(Chronic), Fire = 1, Physical Hazard = 0  
**HMIS PPE:** G - Safety Glasses, Gloves, Vapor Respirator



### 3 COMPOSITION/INFORMATION OF INGREDIENTS

**COMPOSITION/INFORMATION ON INGREDIENTS:**

Chemical Ingredients		
CAS#	%	Chemical Name
100-51-6	15-25%	Benzyl alcohol
2855-13-2	15-25%	Isophoronediamine
84852-15-3	30-40%	Phenol, 4-nonyl-, branched
-40-7	.01-.02%	Proprietary, Benzotriazol

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### FIRST AID MEASURES

- Inhalation:** Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
- Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Eye Contact:** Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.
- Ingestion:** Rinse mouth with water. Do not induce vomiting unless directed to do so by a medical personnel. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

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### FIRE FIGHTING MEASURES

- Flash Point:** 100 deg C
- Flash Point Method:** Pensky-Martens Closed Cup

Suitable extinguishing media: Foam, carbon dioxide (CO<sub>2</sub>), dry powder, water spray. Firefighters should wear self-contained breathing apparatus (SCBA). So Not take personal risk or individuals without suitable training. Pressure may build up in closed container that are exposed to heat and fire. Hazardous thermal decomposition; Carbon monoxide, carbon dioxide, aldehydes

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire. Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

#### 5.1 EXTINGUISHING MEDIA

Suitable extinguishing media: Water spray. Polyvalent foam. BC powder. Carbon dioxide. Sand/earth.

Unsuitable extinguishing media: Solid water jet ineffective as extinguishing medium.

#### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Fire hazard: DIRECT FIRE HAZARD. Not easily combustible. INDIRECT FIRE HAZARD. Temperature above flashpoint: higher fire/explosion hazard: see "Reactivity Hazard".

Explosion hazard: INDIRECT EXPLOSION HAZARD. Reactions with explosion hazards: see "Reactivity Hazard".

Reactivity: Polymerizes on exposure to temperature rise. Upon combustion: CO and CO<sub>2</sub> are formed. Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion. Violent exothermic reaction with (some) acids/bases. May polymerise on exposure to amines: pressure rise and possible bursting of container.

#### 5.3 ADVICE FOR FIREIGHTERS

Precautionary measures fire: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighborhood close doors and windows.

Firefighting instructions: Cool containers with water spray/remove them into safety. Do not move the load if exposed to heat. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

Protection during firefighting: Heat/fire exposure: Compressed air/oxygen apparatus.

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### ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures;

Use personal protective equipment.

#### 6.2 Environmental precautions:

Do Not Allow to enter drains or waterways

Do not discharge into the soil/ground.

#### 6.3 Methods and material for containment and cleaning up

Ventilate the area, Prevent further leakage or spillage if safe to do so. Remove all sources of ignition. Use only non-sparking tools.

Take up with absorbent material (eg. sand, universal binder). Clean contaminated floors and objects thoroughly while observing environmental regulations.

Dispose of absorbed material in accordance with the regulations, State and Federal

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### HANDLING AND STORAGE

#### Handling Precautions:

##### 7.1 Safe Handling

Advice on safe handling:

No special measure necessary if stored and handled as prescribed

Use only in well-ventilated areas. In case of insufficient ventilation wear suitable respiratory equipment.

Wear respiratory protection when spraying.

No sparking tools should be used. To avoid ignition of vapor by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from acids and other incompatibles. Keep containers closed when not in use.

Empty containers retain residue (liquid and/or vapor and can be dangerous.

Hygiene measures:

Do not eat, drink or smoke when working.

Wash hands before breaks and after work.

Remove soiled or soaked clothing immediately.

General protective measures:

Avoid contact with eyes and skin

Wear protective gloves and eye/face protection. Avoid breathing vapor or mist.

Storage: keep away from heat, sparks and open flame. No Smoking !

Do not inhale gases/vapors/aerosols.

Do not discharge to open sewers or drains

#### Storage Requirements:

##### 7.2 Conditions for safe storage, including any incompatibilities

Prevention of fire and explosion:

Information - Store in cool/well ventilated place. Keep away from heat. Inspect periodically for damage or leaks. Protect against physical damage.

Keep away from acids, amines, (strong) bases and other incompatibles. Keep containers closed when not in use.

Have appropriate fire extinguishers and spill clean-up equipment in or near storage area.

Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel.

Storage:

Information - Use approved containers

Requirements - Keep container tightly closed

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Do not store below <5 C (41 F)  
Do not keep at temperature above 35 C (95 F)  
Keep in cool area, Do Not store in direct sunlight

KEEP OUT OF THE REACH OF CHILDREN

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### EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Engineering Controls:

##### 8.1 Control parameters

Use only in well-ventilated areas. Apply technical measure to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

#### Personal Protective Equipment:

Benzyl alcohol (100-51-6) [15-25%]

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 480 min Material tested: Butoject (KCL 897 / Aldrich Z677647, Size M)

Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 30 min Material tested: Camatril (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Isophoronediamine (2855-13-2) [15-25%]

Personal protective equipment

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use

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respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full contact Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 480 min Material tested: Camatril (KCL 730 / Aldrich Z677442, Size M) Splash contact data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Benzyl alcohol (100-51-6) [15-25%]

Components with workplace control parameters

TWA 10 ppm USA. Workplace Environmental Exposure Levels (WEEL)

Isophoronediamine (2855-13-2) [15-25%] : no data available

Avoid release to the environment.

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## PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear	<b>Odor:</b>	Mild odor
<b>Physical State:</b>	Liquid	<b>Molecular Formula:</b>	N/A
<b>Odor Threshold:</b>	Not measured	<b>Solubility:</b>	Non soluble
<b>Spec Grav./Density:</b>	1.00 (25 deg C)	<b>Percent Volatile:</b>	None (Zero VOC)
<b>Viscosity:</b>	N/A	<b>Freezing/Melting Pt.:</b>	10 deg C
<b>Boiling Point:</b>	Not available	<b>Flash Point:</b>	100 deg C
<b>Flammability:</b>	Not available	<b>VOC:</b>	0 %
<b>Vapor Pressure:</b>	Not available	<b>Auto-Ignition Temp:</b>	Not available
<b>pH:</b>	N/A	<b>UFL/LFL:</b>	Not available
<b>Evap. Rate:</b>	Not available		

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### STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable
<b>Conditions to Avoid:</b>	Keep away from excessive heat or open flame. Store below maximum storage temperature.
<b>Materials to Avoid:</b>	Strong oxidizing agents; Acids, Bases, caustic soda (sodium hydroxide).
<b>Hazardous Decomposition:</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
<b>Hazardous Polymerization:</b>	Hazardous Polymerization will not occur alone. Reacts with considerable heat release with some curing agents. Polymerises exothermically with amines, mercaptans and Lewis acids at ambient temperature and above.

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### TOXICOLOGICAL INFORMATION

#### **Benzyl alcohol (100-51-6) [15-25%]**

Information on toxicological effects

##### **Acute toxicity:**

LD50 Oral - rat - 1,230 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Excitement.

Behavioral:Coma.

Inhalation: no data available

LD50 Dermal - rabbit - 2,000 mg/kg

Skin corrosion/irritation: Skin - rabbit Result: Irritating to skin. - 24 h

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

##### **Carcinogenicity:**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: DN3150000

Central nervous system depression

Liver - Irregularities - Based on Human Evidence

#### **Isophoronediamine (2855-13-2) [15-25%]**

Information on toxicological effects

Acute toxicity:

Oral LD50 LD50 Oral - rat - 1,030 mg/kg

Inhalation LC50 no data available

Dermal LD50 Other information on acute toxicity

Skin corrosion/irritation: Skin - rabbit - Skin irritation

Serious eye damage/eye irritation: Eyes - rabbit - corrosive to eyes

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Respiratory or skin sensitisation: May cause allergic skin reaction.

Causes sensitisation.

Germ cell mutagenicity: no data available

### **Carcinogenicity:**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity

Specific target organ toxicity - single exposure (Globally Harmonized System):

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):

no data available

Aspiration hazard

Potential health effects: Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Ingestion Harmful if swallowed. Skin Harmful if absorbed through skin. Causes skin burns. Eyes Causes eye burns.

Synergistic effects: no data available

Additional Information RTECS: GV5020833

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## ECOLOGICAL INFORMATION

### **Benzyl alcohol (100-51-6) [15-25%]**

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - *Lepomis macrochirus* (Bluegill) - 10 mg/l - 96 h.

Toxicity to daphnia and EC50 - *Daphnia magna* (Water flea) - 55 mg/l - 24 h.

other aquatic invertebrates

Persistence and degradability: Biodegradability Biotic/Aerobic - Exposure time 28 d Result: 92 - 96 % - Readily biodegradable.

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life.

### **Isophoronediamine (2855-13-2) [15-25%]**

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - *Leuciscus idus* (Golden orfe) - 110 mg/l - 96.0 h.

Toxicity to daphnia EC50 - *Daphnia magna* (Water flea) - 17.4 mg/l - 48 h.

and other aquatic invertebrates

Toxicity to algae EC50 - *Desmodesmus subspicatus* (green algae) - 37 mg/l - 72 h.

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available



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Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life.

### 13 DISPOSAL CONSIDERATIONS

#### DISPOSAL CONSIDERATIONS (NON-MANDATORY)

##### Waste Treatment Methods

This product, when being disposed of in its unused and uncontaminated state should be treated as hazardous waste according to U.S. EPA and/or EC Directive 91/689/EEC. Any disposal practices must be in compliance with all national and State/Provincial laws and an municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required. Do not dump into any sewers, on the ground, or into any body of water.

### 14 TRANSPORT INFORMATION

UN2289, Limited Quantity for packages less than 30 kg (66lb) and inner packagings less than 5 L (1.3 gal)., PGIII, (Isophoronediamine, mixture)

Land Transport: USDOT: UN2289 ISOPHORONEDIAMINE, mixture Class 8, Corrosive Substances, PG III

Sea Transport: IMDG: UN2289 ISOPHORONEDIAMINE, mixture Class 8, Corrosive Substances, PG III

Air Transport: IATA/ICAO: UN2289 ISOPHORONEDIAMINE, mixture Class 8, Corrosive Substances, PG III

CHEMTREC (800) 424-9300 CCN-

Marine Pollutant: NO

Hazardous Substance (USA): NO



### 15 REGULATORY INFORMATION

[%] RQ (CAS#) Substance - Reg Codes

[15-25%] Benzyl alcohol (100-51-6) HAP, MASS, PA, TSCA

[15-25%] Isophoronediamine (2855-13-2) TSCA

[30-40%] Phenol, 4-nonyl-, branched (84852-15-3) TSCA

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

#### Regulatory Code Legend

HAP = Hazardous Air Pollutants

MASS = MA Massachusetts Hazardous Substances List

PA = PA Right-To-Know List of Hazardous Substances

TSCA = Toxic Substances Control Act

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### OTHER INFORMATION

#### **DISCLAIMER:**

The user's attention is drawn to the risks brought upon by the misuse of the product. This Safety Data Sheet does not exempt the user from knowing and applying the regulations corresponding to his/her activity. It is his//her own responsibility to take the precautions according to the use of this product.

#### **KEEP THIS and all chemicals OUT OF THE REACH OF CHILDREN !**

The information and data contained herein is believed to be accurate at the time of preparation and has been obtained from sources believed to be generally reliable. No Warranty or Liability for the accuracy is made and no Liability will be assumed for claims arising from any party's use of or reliance on information or recommendations contained herein.

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