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# Material Safety Data Sheet

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identification

**Product ID:** CEC0029  
**Product Name:** EPOXY CURING AGENT  
**Product Use:** Paint product.  
**Effective date:** 22/Jan/2013  
**Revision Date:** 21/Dec/2011  
**UN ID Number (msds):** UN2924  
**WHMIS Classification:** B2 Flammable Liquids D1A Very Toxic Material D2B Toxic Material Class E Corrosive Material

### Company Identification

Valspar, Inc.  
 1915 Second Street West  
 Cornwall , Ontario K6H 5T1

**Tech Info Phone:** 1-416-284-1681

**24-Hour Medical Emergency Phone:** 1-888-345-5732

## 2. HAZARDS IDENTIFICATION

### Primary Routes of Exposure:

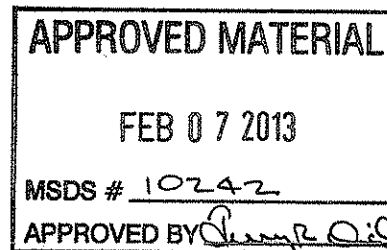
- Inhalation
- Ingestion
- Skin absorption

### Eye Contact:

- Moderate eye irritation
- Causes eye burns.
- May cause blindness.
- Risk of serious damage to eyes.
- Causes serious eye damage.

### Skin Contact:

- Causes skin irritation.
- Causes skin burns.



- May cause sensitization by skin contact.

**Ingestion:**

- Irritation of the mouth, throat, and stomach.
- Causes digestive tract burns.
- Harmful if swallowed.

**Inhalation:**

- Causes respiratory tract irritation.
- Harmful by inhalation.
- May cause sensitization by inhalation.

**Acute Other Health Effects:**

- Contains ingredients which are corrosive.

**Target Organ and Other Health Effects:**

- Causes headache, drowsiness or other effects to the central nervous system.
- Kidney injury may occur.
- Liver injury may occur.

**This product contains ingredients that may contribute to the following potential chronic health effects:**

- Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
- Possible sensitization.

**Teratogens:**

- May cause birth defects.

**3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS**

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name	CAS Number
VINYL RESIN UNKNOWN	50 - 55	SUPPLIER TRADE SECRET HMIRC 4832	UNKNOWN
BENZYL ALCOHOL 100-51-6	15 - 20	Benzyl alcohol	100-51-6
METHYL ISOBUTYL KETONE 108-10-1	10 - 15	Methylisobutyl ketone	108-10-1
1,2- DIAMINOCYCLOHEXANE 694-83-7	5 - 10	1,2-Cyclohexanediamine	694-83-7
TRIETHYLENETETRAMINE 112-24-3	1 - 5	Triethylenetetramine	112-24-3
NONYL PHENOL 25154-52-3	1 - 5	Nonylphenol	25154-52-3
POLYVINYL ALCOHOL UNKNOWN	1 - 5	SUPPLIER TRADE SECRET	UNKNOWN
2,4,6- TRIS(DIMETHYLAMINOMET HYL)PHENOL 90-72-2	1 - 5	Phenol, 2,4,6- tris[(dimethylamino)methyl ]	90-72-2

If this section is blank there are no hazardous components per WHMIS guidelines.

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

#### 4. FIRST AID MEASURES

**Eye Contact:**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

**Skin Contact:**

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

**Ingestion:**

Get medical attention immediately.

**Inhalation:**

Move to fresh air. Get medical attention, if symptoms develop or persist. Get medical attention immediately. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration.

**Medical conditions aggravated by exposure:**

Any respiratory or skin condition.

#### 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	60
Flash point (Celsius):	16
Lower explosive limit (%):	1
Upper explosive limit (%):	8
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7. See Section 10.
Hazardous combustion products:	

**Unusual fire and explosion hazards:**

None known.

**Extinguishing media:**

Carbon dioxide, dry chemical, foam and/or water fog.

**Fire fighting procedures:**

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

#### 6. ACCIDENTAL RELEASE MEASURES

**Action to be taken if material is released or spilled:**

Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Soak up with inert absorbent material. Use only non-sparking tools. Avoid all personal contact.

#### 7. HANDLING AND STORAGE

## 7. HANDLING AND STORAGE

### Precautions to be taken in handling and storage:

Keep container closed when not in use. Keep away from heat, sparks and open flame. - No smoking. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

## 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

### Personal Protective Equipment

#### Eye and face protection:

Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure. Wear chemical goggles with splash shields or face shield.

#### Skin protection:

Gloves: Neoprene or other nonporous.

#### Other Personal Protection Data:

Wear protective gloves/clothing and eye/face protection. Chemical resistant apron

#### Respiratory protection:

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment. Ensure adequate ventilation, especially in confined areas. Eliminate all ignition sources if safe to do so.

### Exposure Guidelines

#### OSHA Permissible Exposure Limits (PEL's)

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
METHYL ISOBUTYL KETONE 108-10-1	10 - 15	100 ppm TWA 410 mg/m <sup>3</sup> TWA		

#### ACGIH Threshold Limit Value (TLV's)

## 9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	liquid
pH:	not determined
Vapor pressure:	15 mmHg @ 68°F (20°C)
Vapor density (air = 1.0):	5
Boiling point:	237°F (114°C)
Solubility in water:	Negligible (less than 0.1%)
Coefficient of water/oil distribution:	not determined
Density (lbs per US gallon):	8.19

## 9. PHYSICAL PROPERTIES

Specific Gravity:	.98
Evaporation rate (butyl acetate = 1.0):	1.6
Flash point (Fahrenheit):	60
Flash point (Celsius):	16
Lower explosive limit (%):	1
Upper explosive limit (%):	8
Autoignition temperature:	not determined

## 10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Incompatibility:	Strong oxidizing agents
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide. Ammonia compounds. Nitrogen compounds.

**Sensitivity to static discharge:** Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

## 11. TOXICOLOGICAL INFORMATION

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
BENZYL ALCOHOL 100-51-6	15 - 20	= 1230 mg/kg Oral LD50 Rat = 2000 mg/kg Dermal LD50 Rabbit = 8.8 mg/L Inhalation LC50 Rat 4 h
METHYL ISOBUTYL KETONE 108-10-1	10 - 15	= 2080 mg/kg Oral LD50 Rat = 8.2 mg/L Inhalation LC50 Rat 4 h > 16000 mg/kg Dermal LD50 Rabbit
1,2- DIAMINOCYCLOHEXANE 694-83-7	5 - 10	= 4556 mg/kg Oral LD50 Rat
TRIETHYLENETETRAMINE 112-24-3	1 - 5	= 2500 mg/kg Oral LD50 Rat = 550 mg/kg Dermal LD50 Rabbit
NONYL PHENOL 25154-52-3	1 - 5	= 2031 mg/kg Dermal LD50 Rabbit = 580 mg/kg Oral LD50 Rat
2,4,6- TRIS(DIMETHYLAMINOMET HYL)PHENOL 90-72-2	1 - 5	= 1000 mg/kg Oral LD50 Rat = 1280 mg/kg Dermal LD50 Rat

### Mutagens/Teratogens/Carcinogens:

May cause birth defects.

Ingredient Name CAS-No.	Approx. Weight %	California Prop 65 - Reproductive (Female)	California Prop 65 - Carcinogen
METHYL ISOBUTYL KETONE 108-10-1	10 - 15		carcinogen, initial date 11/04/11

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
METHYL ISOBUTYL KETONE 108-10-1	10 - 15			Monograph 101 [in preparation]

Ingredient Name CAS-No.	Approx. Weight %	NTP Known Carcinogens	NTP Suspect Carcinogens	NTP Evidence of Carcinogenicity
BENZYL ALCOHOL 100-51-6	15 - 20			male rat-no evidence; female rat-no evidence; male mice-no evidence; female mice-no evidence
METHYL ISOBUTYL KETONE 108-10-1	10 - 15			male rat-some evidence; female rat-equivocal evidence; male mice- some evidence; female mice-some evidence

## 12. ECOLOGICAL DATA

No information on ecology is available.

## 13. DISPOSAL CONSIDERATIONS

Dispose of waste at an approved hazardous waste treatment/disposal facility in accordance with applicable local, provincial and federal regulations.

## 14. TRANSPORTATION INFORMATION

### Canadian Transport of Dangerous Goods

Proper Shipping Name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.  
Hazardous Ingredient (Land) 1: METHYL ISOBUTYL KETONE  
Hazardous Ingredient (Land) 2: 1,2-DIAMINOCYCLOHEXANE  
Hazard Class: 3  
Subsidiary Risk: 8  
UN ID Number (msds): UN2924  
Packing Group: II

### TDG Clear Language Exceptions:

For Dangerous Goods, the supplier may apply one of the following exceptions (TDG Reference): Limited quantity/Consumer Commodity (1.17), Does not sustain combustion, etc. (2.18), Viscous liquid (2.19), Flammable liquid General Exemption (1.33) or US DOT Reciprocity (9.1,3 & 4). Please consult current TDG regulations before applying any of these exceptions to subsequent shipments.

### International Air Transport Association (IATA):

Proper Shipping Name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.  
IATA N.O.S. Technical Name 1: METHYL ISOBUTYL KETONE  
IATA N.O.S. Technical Name 2: 1,2-DIAMINOCYCLOHEXANE  
Hazard Class: 3  
Subsidiary Risk: 8  
UN ID Number (msds): UN2924  
Packing Group: II

### International Maritime Organization (IMO):

Proper Shipping Name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

IMDG N.O.S. Technical Name 1: METHYL ISOBUTYL KETONE  
 IMDG N.O.S. Technical Name 2: 1,2-DIAMINOCYCLOHEXANE  
 Hazard Class: 3  
 Subsidiary Risk: 8  
 IMO UN/ID Number (msds): UN2924  
 Packing Group: II

## 15. REGULATORY INFORMATION

### INTERNATIONAL REGULATIONS - Chemical Inventories

#### Canada National Pollutant Release Inventory:

Ingredient Name CAS-No.	Approx. Weight %	NPRI Status
BENZYL ALCOHOL 100-51-6	15 - 20	Part 4 Substance
METHYL ISOBUTYL KETONE 108-10-1	10 - 15	Part 1, Group 1 Substance Part 5 Substance Part 1, Group 1 Substance
NONYL PHENOL 25154-52-3	1 - 5	Part 1, Group 1 Substance

## 16. OTHER INFORMATION

#### HMIS Codes

Health: 3  
 Flammability: 3  
 Reactivity: 1  
 PPE: X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

#### Disclaimer:

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

#### Preparation Information:

Prepared By: Regulatory Affairs Department  
 Print date: 22/Jan/2013  
 Revision Date: 21/Dec/2011

**Technical Information:**

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