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Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product ID: CTC1115
Product Name: ISOCYANATE SOLUTION
Product Use: Paint or Coatings Related Product
Effective date: 25/May/2012
Revision Date: 25/May/2012
UN ID Number (msds): UN1263
WHMIS Classification: D2B Toxic Material B2 Flammable Liquids

Company Identification

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

Tech Info Phone: 1-613-932-8960

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

Skin Contact:

- May cause defatting of the skin.
- Dermatitis
- Causes skin irritation.
- May cause sensitization by skin contact.

Ingestion:

APPROVED MATERIAL
 JUN 04 2012
 MSDS # 11237 210
 APPROVED BY [Signature]

- Irritation of the mouth, throat, and stomach.
- Aspiration hazard if swallowed - can enter lungs and cause damage.

Inhalation:

- Causes respiratory tract irritation.
- Harmful by inhalation.
- May cause sensitization by inhalation.
- Difficulty in breathing
- May cause bronchopneumonia or bronchitis.
- May cause pulmonary edema.

Target Organ and Other Health Effects:

- Causes headache, drowsiness or other effects to the central nervous system.
- Liver injury may occur.
- Blood disorders
- Kidney 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.
- Overexposures may cause certain individuals to develop isocyanate sensitization which causes a reaction in isocyanates below the TLV.
- Chronic exposure may cause permanent damage of health.
- As a result of a previous exposure or a large single dose certain individuals will develop isocyanate sensitization (chemical asthma) which will cause them to react to subsequent exposures to isocyanates below the TLV. Symptoms of wheezing, cough, shortness of breath or asthma attack. Individuals may develop lung sensitivity which may persist for long periods. May cause lung damage or impairment. Sensitization may be temporary or permanent.
- Possible sensitization.

3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name	CAS Number
HEXANE, 1,6-DIISOCYANATO-, HOMOPOLYMER 28182-81-2	80 - 85	HEXANE, 1,6-DIISOCYANATO-, HOMOPOLYMER	28182-81-2
METHYL ETHYL KETONE 78-93-3	5 - 10	Methyl ethyl ketone	78-93-3
BUTYL ACETATE 123-86-4	1 - 5	n-Butyl acetate	123-86-4
AROMATIC NAPHTHA, LIGHT 64742-95-6	1 - 5	Petroleum naphtha, light aromatic	64742-95-6
1,2,4-TRIMETHYLBENZENE 95-63-6	1 - 5	1,2,4-Trimethylbenzene	95-63-6

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:

Get medical attention, if symptoms develop or persist. Immediately flush eye(s) with plenty of water. Remove any contact lenses and open eyes wide apart.

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:

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention immediately.

Inhalation:

Move injured person into fresh air and keep person calm under observation. 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):	23
Flash point (Celsius):	-5
Lower explosive limit (%):	1
Upper explosive limit (%):	16
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:

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. 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. Soak up with inert absorbent material. Use only non-sparking tools. Avoid all personal contact.

7. HANDLING AND STORAGE

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Precautions to be taken in handling and storage:

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. 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:

Wear safety glasses or goggles to protect against exposure.

Skin protection:

Gloves: Neoprene or other nonporous.

Other Personal Protection Data:

To prevent skin contact wear protective clothing covering all exposed areas. 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

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

Exposure Guidelines

OSHA Permissible Exposure Limits (PEL's)

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
METHYL ETHYL KETONE 78-93-3	5 - 10	200 ppm TWA 590 mg/m ³ TWA		
BUTYL ACETATE 123-86-4	1 - 5	150 ppm TWA 710 mg/m ³ TWA		

ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
METHYL ETHYL KETONE 78-93-3	5 - 10	200 ppm TWA	300 ppm STEL		
BUTYL ACETATE 123-86-4	1 - 5	150 ppm TWA	200 ppm STEL		
1,2,4-TRIMETHYLBENZENE 95-63-6	1 - 5	25 PPM			

9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	liquid
pH:	not determined
Vapor pressure:	75.9398496 mmHg @ 68°F (20°C)
Vapor density (air = 1.0):	4.3
Boiling point:	175.28°F (80°C)
Solubility in water:	not determined
Coefficient of water/oil distribution:	not determined
Density (lbs per US gallon):	9.11
Specific Gravity:	1.09
Evaporation rate (butyl acetate = 1.0):	5.7
Flash point (Fahrenheit):	23
Flash point (Celsius):	-5
Lower explosive limit (%):	1
Upper explosive limit (%):	16
Autoignition temperature:	not determined

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Heat.
Incompatibility:	Strong oxidizing agents
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide. 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
HEXANE, 1,6-DIISOCYANATO-, HOMOPOLYMER 28182-81-2	80 - 85	= 18500 mg/m ³ Inhalation LC50 Rat 1 h
METHYL ETHYL KETONE 78-93-3	5 - 10	= 2737 mg/kg Oral LD50 Rat = 32 g/m ³ Inhalation LC50 Mouse 4 h = 6480 mg/kg Dermal LD50 Rabbit
BUTYL ACETATE 123-86-4	1 - 5	= 10768 mg/kg Oral LD50 Rat = 390 ppm Inhalation LC50 Rat 4 h > 17600 mg/kg Dermal LD50 Rabbit
AROMATIC NAPHTHA, LIGHT 64742-95-6	1 - 5	= 3400 ppm Inhalation LC50 Rat 4 h = 8400 mg/kg Oral LD50 Rat > 2000 mg/kg Dermal LD50 Rabbit > 5.2 mg/L Inhalation LC50 Rat 4 h
1,2,4-TRIMETHYLBENZENE 95-63-6	1 - 5	= 18 g/m ³ Inhalation LC50 Rat 4 h = 3400 mg/kg Oral LD50 Rat > 3160 mg/kg Dermal LD50 Rabbit

Mutagens/Teratogens/Carcinogens: None known.

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: PAINT
Hazard Class: 3
UN ID Number (msds): UN1263
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: Paint
Hazard Class: 3
UN ID Number (msds): UN1263
Packing Group: II

International Maritime Organization (IMO):

Proper Shipping Name: PAINT
Hazard Class: 3
IMO UN/ID Number (msds): UN1263
Packing Group: II

15. REGULATORY INFORMATION

INTERNATIONAL REGULATIONS - Chemical Inventories

Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

US TSCA Inventory:

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

Canada National Pollutant Release Inventory:

Ingredient Name CAS-No.	Approx. Weight %	NPRI Status
METHYL ETHYL KETONE 78-93-3	5 - 10	Part 1, Group 1 Substance Part 5 Substance
BUTYL ACETATE 123-86-4	1 - 5	Part 1, Group 1 Substance Part 5 Substance

Ingredient Name CAS-No.	Approx. Weight %	NPRI Status
AROMATIC NAPHTHA, LIGHT 64742-95-6	1 - 5	Part 5 Substance
1,2,4-TRIMETHYLBENZENE 95-63-6	1 - 5	Part 1, Group 1 Substance Part 5 Substance Part 1, Group 1 Substance

16. OTHER INFORMATION

HMIS Codes

Health: 2*
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.

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Technical Information:

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