



since 1895

Material Safety Data Sheet

NFPA	WHMIS	PPE	Transport Symbol

Preparation Date 19-Dec-2006

Revision Date 18-Aug-2011

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name White-Stallion™ Plus Base Coat
Product Code -7837-
UN-No 1263

Contact Manufacturer
 The Garland Company, Inc.
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 Cleveland, Ohio 44105-2197
 Ph: (800) 762-8225 Fax: (216) 641-0633

Garland Canada, Inc.
 1296 Martin Grove Rd.
 Toronto, Ontario M9W 4X3
 Ph: (416)747-7995 Fax: (416)747-1980

Emergency Telephone Number 07973 837 713

2. HAZARDS IDENTIFICATION

Emergency Overview

Harmful by inhalation, in contact with skin and if swallowed

Appearance Gray.

Physical State Liquid.

Odor Petroleum distillates.

Mexico - Grade Moderate risk, Grade 2

Potential Health Effects

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

Acute Effects

Eyes Contact with eyes may cause irritation.
Skin May cause eye/skin irritation. May cause sensitization by skin contact.
Inhalation Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion Harmful if swallowed.

Chronic Effects Prolonged exposure may cause chronic effects.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions Not available

Interactions with Other Chemicals Not available

Potential Environmental Effects See Section 12 for additional Ecological information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

Chemical Name	CAS-No	Weight %	North American Hazard Indicator
Ethyl Benzene	100-41-4	1 - 5	1
Xylene	1330-20-7	1 - 5	1
Isophoronediiisocyanate	4098-71-9	10 - 30	1

4. FIRST AID MEASURES

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

Inhalation Move to fresh air.

Ingestion Do not induce vomiting without medical advice. Do not induce vomiting. Call a physician or Poison Control Center immediately.

Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Foam. Dry chemical. Dry powder. Carbon dioxide (CO2).

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

Hazardous Combustion Products Carbon monoxide, Carbon dioxide (CO2), Hydrocarbons.

Explosion Data

Sensitivity to mechanical impact	No
Sensitivity to static discharge	Yes

Specific Hazards Arising from the Chemical

Combustible material. Keep product and empty container away from heat and sources of ignition.

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 2

Flammability 2

Instability 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Evacuate personnel to safe areas. Remove all sources of ignition. Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Keep out of waterways.
Methods for Containment	Contain with inert absorbent material
Methods for Cleaning Up	Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.
Other Information	Not applicable

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Remove all sources of ignition.
Storage	Keep away from open flames, hot surfaces and sources of ignition. Keep tightly closed in a dry and cool place. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	Ontario TWAEV	Mexico
Ethyl Benzene	TWA: 100 ppm STEL: 125 ppm	TWA: 100 ppm TWA: 435 mg/m ³	STEL: 540 mg/m ³ STEL: 125 ppm TWA: 100 ppm TWA: 435 mg/m ³	STEL: 125 ppm STEL: 545 mg/m ³ TWA: 100 ppm TWA: 435 mg/m ³
Xylene	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm TWA: 435 mg/m ³	STEL: 650 mg/m ³ STEL: 150 ppm TWA: 100 ppm TWA: 435 mg/m ³	STEL: 150 ppm STEL: 655 mg/m ³ TWA: 435 mg/m ³ TWA: 100 ppm
Isophoronediiisocyanate	TWA: 0.005 ppm		CEV: 0.8 µmol/m ³ CEV: 0.02 ppm TWA: 0.2 µmol/m ³ TWA: 0.005 ppm	TWA: 0.01 ppm TWA: 0.09 mg/m ³

Chemical Name	NIOSH IDLH
Ethyl Benzene	800 ppm

Engineering Measures Do not allow ventilation equipment to draw material odors indoors..

Personal Protective Equipment

- Eye/face Protection** Safety glasses with side-shields.
- Skin Protection** Long sleeved clothing. Impervious gloves.
- Respiratory Protection** In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene Measures

Wash hands before breaks and at the end of workday. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White	
Odor	Petroleum distillates	
Physical State	Liquid	
pH	Not available	
Flash Point	109°F / 41°C	
Autoignition Temperature	Not available	
Boiling Point/Range	308 -490°F	
Freezing Point	Not available	
Flammability Limits in Air	Lower 0.7	Upper 10.7
Explosive Properties	Not available	
Oxidizing Properties	Not available	
Evaporation Rate	.100 (ether = 1)	
Vapor Pressure	2.0 @ 20 C mmHg	
Vapor Density	7.0	
Specific Gravity	1.13	
Density	9.44	
Water Solubility	Not available	
Volatiles	16 (%WT)	
VOC Content	163 g/L	

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Conditions to Avoid	Open flames and intense heat.
Incompatible Materials	Strong oxidizing agents. Water. Amines. Bases. Alcohols.
Hazardous Decomposition Products	Organic materials. Carbon dioxide (CO2). Carbon monoxide. Hydrocarbons. Nitrogen oxides (NOx).
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethyl Benzene	3500 mg/kg Rat	15354 mg/kg Rabbit	17.2 mg/L Rat 4 h
Di-n-butylamine	189 mg/kg Rat	1010 µL/kg Rabbit	
Xylene	4300 mg/kg Rat	1700 mg/kg Rabbit	5000 ppm Rat 4 h
Isophoronediiisocyanate	1270 mg/kg Rat	4780 mg/kg Rabbit	0.123 mg/L Rat 4 h 0.26 mg/L Rat 1 h

Chronic Toxicity

Carcinogenicity

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

Chemical Name	ACGIH	IARC	NTP	OSHA	Mexico
Ethyl Benzene	A3	Group 2B		X	

12. ECOLOGICAL INFORMATION

Ecotoxicity

No information available.

Ethyl Benzene

Freshwater Algae Data

Selenastrum capricornutum EC50=4.6 mg/L (72 h)

Selenastrum capricornutum EC50>438 mg/L (96 h)

Microtox Data

Photobacterium phosphoreum EC50=9.68 mg/L (30 min)

Nitrosomonas EC50=96 mg/L (24 h)

Water Flea Data

Daphnia magna EC501.8 - 2.4 mg/L (48 h)

Di-n-butylamine

Freshwater Algae Data

Scenedesmus subspicatus EC50=1.1 mg/L (96 h)

Scenedesmus subspicatus EC50=16.4 mg/L (72 h)

Selenastrum capricornutum EC50=19 mg/L (96 h)

Microtox Data

Pseudomonas putida EC50=196 mg/L (17 h)

Water Flea Data

water flea EC50=66 mg/L (48 h)

Xylene

Microtox Data

Photobacterium phosphoreum EC50=0.0084 mg/L (24 h)

Water Flea Data

Gammarus lacustris LC50=0.6 mg/L (48 h)

water flea EC50=3.82 mg/L (48 h)

Isophoronediiisocyanate

Freshwater Algae Data

Scenedesmus subspicatus EC50=118.7 mg/L (72 h)

Water Flea Data

Daphnia magna EC50=83.7 mg/L (24 h)

Persistence/Degradability

Not available

Bioaccumulation/ Accumulation

Not available

Mobility in Environmental Media

Not available

Ethyl Benzene

log Pow = 3.118

Ethyl Benzene

Di-n-butylamine

log Pow = 2.06

Xylene

log Pow = 2.77 - 3.15

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method	Dispose of in accordance with local, state, and federal regulations.
Contaminated Packaging	Empty containers should be taken for local recycling, recovery or waste disposal.
US EPA Waste Number	D001

14. TRANSPORT INFORMATION

<u>DOT</u>	Not Regulated
UN-No	1263
<u>TDG</u>	Not regulated
Subsidiary Class	
<u>MEX</u>	Not regulated
Subsidiary Class	
Packing Group	
<u>ICAO</u>	
UN-No	UN1263
Proper Shipping Name	Paint
Hazard Class	3
Subsidiary Class	
Packing Group	III
Description	Paint,UN1263,PG III
<u>IATA</u>	
UN-No	UN1263
Proper Shipping Name	Paint
Hazard Class	3
Subsidiary Class	
Packing Group	III
ERG Code	3L
Description	Paint,UN1263,PG III
<u>IMDG/IMO</u>	
Proper Shipping Name	Paint
Hazard Class	3
Subsidiary Class	
UN-No	UN1263
Packing Group	III

14. TRANSPORT INFORMATION

EmS No. F-E, _S-E_
Description Paint, UN1263, PG III

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS
Ethyl Benzene	X	X	-	X	-	X	X	X	X	X
Di-n-butylamine	X	X	-	X	-	X	X	X	X	X
Xylene	X	X	-	X	-	X	X	X	X	X
Isophoronediiisocyanate	X	X	-	X	-	X	X	X	X	X
Poly (oxy-1,4-butanediyl)-a-hydro-w-hydroxy	X	X	-	-	-	X	X	X	X	X

TSCA Complies
DSL Complies
NDSL Complies
EINECS Does not Comply
ELINCS Does not Comply
ENCS Does not Comply
CHINA Complies
KECL Complies
PICCS Complies
AICS Complies

USA

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372:

Chemical Name	SARA 313 - Threshold Values
Ethyl Benzene (CAS #: 100-41-4)	0.1%
Xylene (CAS #: 1330-20-7)	1.0%
Isophoronediiisocyanate (CAS #: 4098-71-9)	1.0

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

Chemical Name

Ethyl Benzene (CAS #: 100-41-4)
 Xylene (CAS #: 1330-20-7)

State Regulations

California Proposition 65

WARNING: This product contains a chemical(s) known to the State of California to cause cancer.

Chemical Name	CAS-No	Category	Type
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Chemical Name	CAS-No	Category	Type
Ethyl Benzene	100-41-4	Carcinogen	

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ethyl Benzene	X	X	X	X	X
Di-n-butylamine	X	X	X		X
Xylene	X	X	X	X	X
Isophoronediiisocyanate	X	X	X	X	X

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
D2A Very toxic materials

Chemical Name	NPRI
Isophoronediiisocyanate	X

16. OTHER INFORMATION

Preparation Date 19-Dec-2006
Revision Date 18-Aug-2011
Revision Summary Not available

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 MSDS