



White-Knight™ Plus WC Base Coat

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: N/A

Date of Issue: 04/29/15

Version: 1.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: White-Knight™ Plus WC Base Coat

Product Code: 7839

Intended Use of the Product

Low VOC, urethane base coat. For professional use only.

Name, Address, and Telephone of the Responsible Party

Manufacturer

The Garland Company, Inc.
3800 East 91st Street
Cleveland, Ohio 44105-2197
T-800-762-8225
F-216-641-0633

www.garlandco.com

Supplier

The Garland Company, Inc.
3800 East 91st Street
Cleveland, Ohio 44105-2197
T-800-762-8225
F-216-641-0633

The Garland Company, Inc.
209 Carrier Drive
Toronto, Ontario M9W 5Y8
T-416-747-7995 800-387-5991
F-416-747-1980

Emergency Telephone Number

Emergency Number: 1-800-262-8200 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Acute Tox. 4	H302
Skin Irrit. 2	H315
Skin Sens. 1	H317
Eye Irrit. 2A	H319
Resp. Sens. 1	H334
Acute Tox. 2	H330
STOT SE 3	H335
Aquatic Acute 2	H401

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

:
H302 – Harmful if swallowed
H315 – Causes skin irritation
H317 – May cause an allergic skin reaction
H319 – Causes serious eye irritation
H330 – Fatal if inhaled
H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 – May cause respiratory irritation
H401 – Toxic to aquatic life

Precautionary Statements (GHS-US)

:
P260 - Do not breathe gas.
P261 - Avoid breathing mist, spray, vapors
P264 – Wash hands, forearms, and other exposed areas thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 – Use only outdoors or in a well-ventilated area
P272 – Contaminated work clothing should not be allowed out of the workplace
P273 – Avoid release to the environment
P280 – Wear protective gloves/protective clothing/eye protection/face protection
P284 - Wear respiratory protection.
P285 - In case of inadequate ventilation wear respiratory protection
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

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P302+P352 – IF ON SKIN: Wash with plenty of soap and water
P304+341 - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing
P304+P340 – IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/physician
P312 - Call a POISON CENTER/doctor/physician if you feel unwell
P320 - Specific treatment is urgent (see supplemental first aid instructions on this label)
P321 - Specific treatment (see Section 4)
P330 - Rinse mouth
P332+P313 – If skin irritation occurs: Get medical advice/attention
P333+P313 – If skin irritation or rash occurs: Get medical advice/attention
P337+P313 – If eye irritation persists: Get medical advice/attention
P342+P311 – If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
P362 - Take off contaminated clothing and wash before reuse
363 - Wash contaminated clothing before reuse
P403+233 - Store in a well-ventilated place. Keep container tightly closed
P501 – Dispose of contents/container according to local, regional, national, and international regulations

Other Hazards

Other Hazards Not Contributing to the Classification: Not available

Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not available

Mixture

Name	Product identifier	% (w/w)	Classification (GHS-US)
Cyclohexane, 1,1'-methylenebis[4-isocyanato-	(CAS No) 5124-30-1	.1-1	Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 2, H401
Titanium Dioxide	(CAS No) 13463-67-7	10-30	Skin Irrit. 2, H315
Calcium Carbonate	(CAS No) 1317-65-3	10-30	Comb. Dust

Full text of H-Phrases: See Section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

Inhalation: Move to fresh air.

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

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

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

Most Important Symptoms and Effects Both Acute and Delayed

General: H302 – Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Fatal if inhaled. May cause allergy of asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Toxic to aquatic life.

Inhalation: Fatal if inhaled. May cause allergy of asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye irritation.

Ingestion: Harmful if swallowed.

Chronic Symptoms: None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

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.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Flammable liquid and vapor.

Explosion Hazard: Sensitivity to static discharge.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Firefighting Instructions: Foam. Dry chemical. Dry powder. Carbon dioxide (CO₂). Keep product and empty container away from heat and sources of ignition.

Protection During Firefighting: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide (CO₂), Hydrocarbons

Other Information: Refer to Section 9 for flammability properties.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Evacuate personnel to safe areas. Remove all sources of ignition. Ensure adequate ventilation. Use personal protective equipment.

For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

Reference to Other Sections

See Heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Precautions for Safe Handling: Handle empty containers with care because residual vapors are flammable.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

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Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Remove all sources of ignition.

Storage Conditions: 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.

Storage Area: Store locked up. Store in a well-ventilated place. Keep cool.

Special Rules on Packaging: Keep only in original container.

Specific End Use(s)

Low VOC, urethane base coat. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Calcium Carbonate (1317-65-3)		
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³
Mexico	OEL TWA (mg/m ³)	10 mg/m ³
Mexico	OEL STEL (mg/m ³)	20 mg/m ³
Ontario	OEL TWA (mg/m ³)	10 mg/m ³

Cyclohexane,1,1'-methylenebis[4-isocyanato-(5124-30-1)		
USA ACGIH	ACGIH TWA (ppm)	0.005 ppm
USA NIOSH	NIOSH REL (ceiling) (mg/m ³)	.11 mg/m ³
USA NIOSH	NIOSH REL (ceiling) (ppm)	0.01 ppm
Mexico	OEL TWA (mg/m ³)	.11 mg/m ³
Mexico	OEL TWA (ppm)	.01 ppm
Ontario	OEL Ceiling (ppm)	0.02 ppm (designated substances regulation)
Ontario	OEL TWA (ppm)	0.005 ppm (applies to workplaces to which the designated substances regulation does not apply)
Alberta	OEL TWA (mg/m ³)	0.05 mg/m ³
Alberta	OEL TWA (ppm)	0.005 ppm
British Columbia	OEL Ceiling (ppm)	0.01 ppm
British Columbia	OEL TWA (ppm)	0.005 ppm
Manitoba	OEL TWA (ppm)	0.005 ppm
New Brunswick	OEL TWA (mg/m ³)	0.054 mg/m ³
New Brunswick	OEL TWA (ppm)	0.005 ppm
Newfoundland & Labrador	OEL TWA (ppm)	0.005 ppm
Nova Scotia	OEL TWA (ppm)	0.005 ppm
Nunavut	OEL Ceiling (mg/m ³)	0.1 mg/m ³
Nunavut	OEL Ceiling (ppm)	0.01 ppm
Northwest Territories	OEL Ceiling (mg/m ³)	0.1 mg/m ³
Northwest Territories	OEL Ceiling (ppm)	0.01 ppm
Prince Edward Island	OEL TWA (ppm)	0.005 ppm
Québec	VEMP (mg/m ³)	0.054 mg/m ³
Québec	VEMP (ppm)	0.005 ppm
Saskatchewan	OEL STEL (ppm)	0.015 ppm
Saskatchewan	OEL TWA (ppm)	0.005 ppm
Yukon	OEL Ceiling (mg/m ³)	0.11 mg/m ³
Yukon	OEL Ceiling (ppm)	0.01 ppm

Titanium dioxide (13463-67-7)		
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³

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USA IDLH	US IDLH (mg/m ³)	5000 mg/m ³
Mexico	OEL TWA (mg/m ³)	10 mg/m ³
Mexico	OEL STEL (mg/m ³)	20 mg/m ³
Québec	VEMP (mg/m ³)	10 mg/m ³ (containing no Asbestos and <1% Crystalline silica)
Alberta	OEL TWA (mg/m ³)	10 mg/m ³
British Columbia	OEL TWA (mg/m ³)	3 mg/m ³
Manitoba	OEL TWA (mg/m ³)	10 mg/m ³
New Brunswick	OEL TWA (mg/m ³)	10 mg/m ³
Newfoundland & Labrador	OEL TWA (mg/m ³)	10 mg/m ³
Nova Scotia	OEL TWA (mg/m ³)	10 mg/m ³
Nunavut	OEL TWA (mg/m ³)	10 mg/m ³ (total mass)
Northwest Territories	OEL TWA (mg/m ³)	10 mg/m ³ (total mass)
Ontario	OEL TWA (mg/m ³)	10 mg/m ³
Prince Edward Island	OEL TWA (mg/m ³)	10 mg/m ³
Saskatchewan	OEL STEL (mg/m ³)	20 mg/m ³
Saskatchewan	OEL TWA (mg/m ³)	10 mg/m ³
Yukon	OEL STEL (mg/m ³)	20 mg/m ³
Yukon	OEL TWA (mg/m ³)	10 mg/m ³

Exposure Controls

Appropriate Engineering Controls: Do not allow ventilation equipment to draw material odors indoors.

Personal Protective Equipment: Safety glasses with side-shields. Long sleeved clothing. Impervious gloves. In case of insufficient ventilation wear suitable respiratory equipment.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant materials and fabrics.

Eye Protection: Chemical goggles or safety glasses. Face shield.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Thermal Hazard Protection: Wear suitable protective clothing.

Environmental Exposure Controls: Do not allow the product to be released into the environment.

Consumer Exposure Controls: Do not eat, drink, or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: White
Odor	: Petroleum distillates
Odor Threshold	: Not available
pH	: Not available
Relative Evaporation Rate (butyl acetate = 1)	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: Not available
Flash Point	: 109°F (41°C)
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: .7
Upper Flammable Limit	: 10.7

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Vapor Pressure	: 2.0 @ 20 C mmHg
Relative Vapor Density at 68°F (20°C)	: Not available
Relative Density	: Not available
Specific Gravity	: Not available
Solubility	: Not available
Partition coefficient: n-octanol/water	: Not available
Viscosity (Brookfield RV6, 20 RPM, 75°F)	: Not available
Explosion Data – Sensitivity to Mechanical Impact	: Not available
Explosion Data – Sensitivity to Static Discharge	: Not available
Volatile Organic Compounds	: 50 g/L

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: None under normal processing.

Conditions to Avoid: Open flams 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 (NO_x).

SECTION 11: TOXICOLOGICAL INFORMATION

Information On Toxicological Effects - Product

Acute Toxicity: Harmful if inhaled.

LD50 and LC50 Data: Below in table.

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage: Causes serious eye irritation.

Respiratory or Skin Sensitization: May cause allergy of asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Germ Cell Mutagenicity: Not available.

Teratogenicity: Not available

Carcinogenicity: Not classified.

Specific Target Organ Toxicity (Repeated Exposure): May cause respiratory irritation.

Reproductive Toxicity: Not available.

Aspiration Hazard: May be fatal if inhaled.

Specific Target Organ Toxicity (Single Exposure): Not classified.

Symptoms/Injuries After Inhalation: Fatal if inhaled. May cause allergy of asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Causes skin irritation.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation.

Symptoms/Injuries After Ingestion: Harmful if swallowed

Chronic Symptoms: None expected under normal conditions of use.

Information on Toxicological Effects – Ingredient(s)

LD50 and LC50 Data

Cyclohexanamine, 1,1'-methylenebis[2-methyl- (5124-30-1)	
LD50 Oral Rat	1065 mg/kg
LD50 Dermal Rabbit	> 10000 mg/kg
LC50 Inhalation Rat (mg/l)	0.434 mg/l/4h

Titanium dioxide (13463-67-7)	
LD50 Oral Rat	> 10000 mg/kg
IARC Group	2B

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Toxic to aquatic life with long lasting effects.

Cyclohexane, 1,1'-methylenebis[4-isocyanato- (5124-30-1)	
LC50 Fish 1	1.2 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
LC 50 Fish 2	1.2 - 2.76 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)

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Persistence and Degradability

Not established

Bioaccumulative Potential

Not established

Mobility in Soil

No additional information available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

Additional Information: Handle empty containers with care because residual vapors are flammable.

Ecology-Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

In Accordance with DOT

Proper Shipping Name : Not Regulated
Hazard Class :
Identification Number : UN1263
Packing Group :
ERG Number :

In Accordance with IMDG

Proper Shipping Name : Paint
Hazard Class : 3
Identification Number : UN1263
Packing Group : III
Label Codes : 3
EmS-No. : F-E, S-E



In Accordance with IATA

Proper Shipping Name : Paint
Hazard Class : 3
Identification Number : UN1993
Packing Group : III
Label Codes :
ERG Code (IATA) : 128



In Accordance with TDG

Proper Shipping Name : Non-regulated
Hazard Class :
Identification Number :
Packing Group :
Label Codes :

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

Cyclohexane, 1,1'-methylenebis[4-isocyanato- (5124-30-1)

Listed on the United States TSCA (Toxic Substances Control Act) Inventory

Listed on SARA Section 313 (Specific toxic chemical listings)

Titanium dioxide (13463-67-7)

Listed on the United States TSCA (Toxic Substances Control Act) Inventory

US State Regulations

Titanium Dioxide (13463-67-7)

U.S. – California – Proposition 65 – Carcinogens List

WARNING: This product contains chemicals known to the

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	state of California to cause cancer.
Cyclohexane, 1,1'-methylenebis[4-isocyanato- (5124-30-1)	
RTK – U.S. – Massachusetts – Right To Know List	
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List	
RTK - U.S. - Pennsylvania - RTK (Right to Know) List	
Titanium dioxide (13463-67-7)	
RTK – U.S. – Massachusetts – Right To Know List	
RTK – U.S. – New Jersey – Right To Know Hazardous Substance List	
RTK – U.S. – Pennsylvania – RTK (Right To Know) List	

Canadian Regulations

White-Knight Plus WC	
WHMIS Classification	Class B Division 3 – Combustible liquid
	Class D Division 2 Subdivision A – Very toxic material causing other toxic effects.
	

Titanium dioxide (13463-67-7)	
Listed on the Canadian DSL (Domestic Substances List) Inventory	
WHMIS Classification	Class D Division 2 Subdivision A – Very toxic material causing other toxic effects

Cyclohexane, 1,1'-methylenebis[4-isocyanato- (5124-30-1)	
Listed on the Canadian DSL (Domestic Substances List) Inventory	
WHMIS Classification	Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects
	Class D Division 2 Subdivision A – Very toxic material causing other toxic effects
	Class D Division 2 Subdivision B – Toxic material causing other toxic effects

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

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date : 4/30/15
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Party Responsible for the Preparation of This Document

The Garland Company, Inc.
3800 East 91st Street
Cleveland, Ohio 44105-2197
T-800-762-8225

This information is based on our knowledge as of the Revision Date and is intended to describe the product only for the purposes of health, safety, and environmental requirements as of the Revision Date. It should not therefore be construed as guaranteeing any specific property of the product nor as providing any warranty, expressed or implied. The user assumes all responsibility, liability, risk of loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use, or disposal of the product.

North America GHS US 2012 & WHMIS