



## SAFETY DATA SHEET WHITE-KNIGHT™ PLUS

According to Regulation (EC) No 1907/2006

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME                    WHITE-KNIGHT™ PLUS

SUPPLIER                         Garland Company UK Ltd,  
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PRODUCT NO.                    7828

APPLICATION                     Paint

EMERGENCY TELEPHONE        01452 330646  
09:00 - 17:00 Monday to Friday

### 2 HAZARDS IDENTIFICATION

Flammable. Harmful by inhalation. Harmful: may cause lung damage if swallowed. Irritating to eyes. May cause sensitisation by inhalation and skin contact.

CLASSIFICATION (1999/45)        Xn;R20, R65. R42/43. Xi;R36. R10.

#### PHYSICAL AND CHEMICAL HAZARDS

Flammable. Vapours are heavier than air and may travel along the floor and in the bottom of containers.

#### HUMAN HEALTH

Harmful by inhalation. Irritating to eyes. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. The product contains a sensitising substance which may provoke an allergic reaction among sensitive individuals.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
BUTYL ACETATE -norm	204-658-1	123-86-4	1-3%	R10 R66 R67
CALCIUM CARBONATE	215-279-6	1317-65-3	10-20%	-
ISOPHORONE DI-ISOCYANATE	223-861-6	4098-71-9	0.1-0.5%	T;R23 R42/43 Xi;R36/37/38 N;R51/53
ISOPHORONE DIISOCYANATE HOMOPOLYMER			3-30%	Xi;R36.
PETROLEUM NAPHTHA, LIGHT AROMATIC	265-199-0	64742-95-6	8-15%	Xn;R65. R10.
TITANIUM DIOXIDE	236-675-5	13463-67-7	5-15%	-

The Full Text for all R-Phrases are Displayed in Section 16

### 4 FIRST-AID MEASURES

#### INHALATION

Frequent inhalation of vapours, may cause respiratory allergy. Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

#### INGESTION

May cause discomfort if swallowed. Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention immediately!

# WHITE-KNIGHT™ PLUS

## SKIN CONTACT

Prolonged skin contact may cause redness, irritation and dry skin. May cause allergic skin disorders in sensitive individuals. Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

## EYE CONTACT

Splashes may irritate. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

## 5 FIRE-FIGHTING MEASURES

### EXTINGUISHING MEDIA

Extinguish with foam, carbon dioxide or dry powder. Do not use water jet as an extinguisher, as this will spread the fire.

### SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours. Containers close to fire should be removed immediately or cooled with water. Keep run-off water out of sewers and water sources. Dike for water control.

### SPECIFIC HAZARDS

In case of fire, toxic gases may be formed (COx, NOx). Hydrocarbons.

### PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

### ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses.

### SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

## 7 HANDLING AND STORAGE

### USAGE PRECAUTIONS

Read and follow manufacturer's recommendations. Eliminate all sources of ignition. Provide good ventilation. Avoid inhalation of vapours/spray and contact with skin and eyes. Persons susceptible to allergic reactions should not handle this product. Persons with impaired lung functions should not handle this preparation.

### STORAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Store in tightly closed original container in a dry and cool place. Avoid contact with oxidising agents.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
BUTYL ACETATE -norm	WEL	150 ppm	724 mg/m3	200 ppm	966 mg/m3	
CALCIUM CARBONATE	WEL		4 mg/m3			
TITANIUM DIOXIDE	WEL		4 mg/m3			

WEL = Workplace Exposure Limit.

### PROTECTIVE EQUIPMENT



### ENGINEERING MEASURES

Provide adequate ventilation.

**WHITE-KNIGHT™ PLUS****RESPIRATORY EQUIPMENT**

If ventilation is insufficient, suitable respiratory protection must be provided.

**HAND PROTECTION**

Use protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

**EYE PROTECTION**

Wear approved safety goggles.

**OTHER PROTECTION**

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

**HYGIENE MEASURES**

Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. When using do not eat, drink or smoke. Wash hands after handling.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Liquid		
COLOUR	White		
ODOUR	Hydrocarbon		
BOILING POINT (°C)	153.3°C - 254.4°C	RELATIVE DENSITY	1.13
VAPOUR DENSITY (air=1)	7.0	VAPOUR PRESSURE	2.0 mm Hg @ 20°C
VOLATILE BY VOL. (%)	16%	FLASH POINT (°C)	41°C
FLAMMABILITY LIMIT - LOWER(%)	0.7%	FLAMMABILITY LIMIT - UPPER(%)	10.7%
VOLATILE ORGANIC COMPOUND (VOC)	163 g/l		

**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions and recommended use.

**CONDITIONS TO AVOID**

Avoid contact with strong oxidisers. Avoid heat, flames and other sources of ignition.

**MATERIALS TO AVOID**

Strong oxidising substances. Alcohols. Amines. Bases. Water.

**HAZARDOUS DECOMPOSITION PRODUCTS**

In case of fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) may be formed. Hydrocarbons.

**11 TOXICOLOGICAL INFORMATION****INHALATION**

Harmful by inhalation. May cause sensitisation by inhalation.

**INGESTION**

Harmful: may cause lung damage if swallowed.

**SKIN CONTACT**

Liquid may irritate the skin. May cause sensitisation by skin contact.

**EYE CONTACT**

Irritating to eyes.

**MEDICAL CONSIDERATIONS**

Skin disorders and allergies. Chronic respiratory and obstructive airway diseases.

**12 ECOLOGICAL INFORMATION****ECOTOXICITY**

Avoid discharge to the aquatic environment.

**13 DISPOSAL CONSIDERATIONS**

**WHITE-KNIGHT™ PLUS**

## DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Recover and reclaim or recycle, if practical.

**14 TRANSPORT INFORMATION**

UK ROAD CLASS	3		
PROPER SHIPPING NAME	PAINT		
UN NO. ROAD	1263	UK ROAD PACK GR.	III
ADR CLASS NO.	3	ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	III	TUNNEL RESTRICTION CODE	(D/E)
HAZARD No. (ADR)	30	ADR LABEL NO.	3
HAZCHEM CODE	•3YE	CEFIC TEC(R) NO.	30GF1-III, 30GF1-sp
RID CLASS NO.	3	RID PACK GROUP	III
UN NO. SEA	1263	IMDG CLASS	3
IMDG PACK GR.	III	EMS	F-E, S-E
UN NO. AIR	1263	AIR CLASS	3
AIR PACK GR.	III		

**15 REGULATORY INFORMATION**

## LABELLING



Harmful

## CONTAINS

ISOPHORONE DI-ISOCYANATE  
 PETROLEUM NAPHTHA, LIGHT AROMATIC

## RISK PHRASES

R10	Flammable.
R20	Harmful by inhalation.
R36	Irritating to eyes.
R42/43	May cause sensitisation by inhalation and skin contact.
R65	Harmful: may cause lung damage if swallowed.

## SAFETY PHRASES

S23	Do not breathe vapour/spray.
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37	Wear suitable gloves.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S60	This material and its container must be disposed of as hazardous waste.
P4	Contains isocyanates. See information supplied by the manufacturer.

## EU DIRECTIVES

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

## STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

## WHITE-KNIGHT™ PLUS

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

### 16 OTHER INFORMATION

#### REVISION COMMENTS

This is first issue.

REVISION DATE                      07-2010

#### RISK PHRASES IN FULL

R10	Flammable.
R65	Harmful: may cause lung damage if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R36	Irritating to eyes.
R42/43	May cause sensitisation by inhalation and skin contact.
NC	Not classified.
R66	Repeated exposure may cause skin dryness or cracking.
R23	Toxic by inhalation.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.