



Pilot WF LG

In accordance with the Standard for Classification and Labeling of Chemical Substance and Safety Data Sheet,
Article 10 Paragraph 1

Section 1. Chemical product and company identification

A. Product name : Pilot WF LG

Label No. : 31082

Product description : Paint.

Product type : Not available.

B. Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Use in coatings - Industrial use
Use in coatings - Professional use

C. Supplier/Manufacturer : Chokwang Jotun Ltd.

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Emergency telephone

number

: H.G.LEE Chokwang Jotun Ltd.

Tel: +82 51 797 6000

Section 2. Hazards identification

A. Hazard classification : SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

SKIN SENSITISATION - Category 1

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

This product is classified in accordance with the Industrial Safety and Health Act

and the Chemical Control Act.

B. GHS label elements, including precautionary statements

Symbol :





Signal word : Warning.

Hazard statements: H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention: P280 - Wear protective gloves. Wear eye or face protection.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapour.

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Section 2. Hazards identification

Response : P391 - Collect spillage.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.

: Not applicable. Storage

Disposal : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

C. Other hazards which do : None known.

not result in classification

Section 3. Composition/information on ingredients

Substance/mixture

Other means of identification

: Not available.

: Mixture

CAS number/other identifiers

CAS number : Not applicable.

EC number : Mixture. **Product code** : 31082

Ingredient name	Synonyms	Identifiers	%
4,5-dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	4,5-dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	CAS: 64359-81-5	<1
3-iodo-2-propynyl butylcarbamate (IPBC)	,	CAS: 55406-53-6	<10

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

- A. Eye contact
- : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- **B.** Skin contact
- : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- C. Inhalation
- Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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Section 4. First aid measures

D. Ingestion

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

E. Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments Protection of first-aiders

: No specific treatment.

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Firefighting measures

A. Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

B. Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide carbon monoxide

C. Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Special precautions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Section 6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures
- : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- B. Environmental precautions
- : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
- C. Methods and material for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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Section 6. Accidental release measures

Large spill

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

A. Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

- Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- **B.** Conditions for safe storage, including any incompatibilities
- Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

A. Control parameters

Occupational exposure limits

None.

controls

Environmental exposure controls

- B. Appropriate engineering : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
 - Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

C. Personal protective equipment

Respiratory protection

: If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. By spraying: particulate filter (FFP2 / N95). In confined spaces, use compressed-air or fresh-air respiratory equipment.

Eye protection Hand protection

- : Use safety eyewear designed to protect against splash of liquids.
- : There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be

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Section 8. Exposure controls/personal protection

applied once exposure has occurred.

Wear suitable gloves tested to EN374.

Recommended, gloves(breakthrough time) > 8 hours: neoprene

For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Body protection

: Wash hands, forearms and face thoroughly after handling chemical products, before **Hygiene measures**

eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

showers are close to the workstation location.

Section 9. Physical and chemical properties

A. Appearance

Physical state : Not available.

Colour : A-base, B-base, C-base, Green., orange, White., White.

B. Odour : Characteristic. C. Odour threshold : Not available.

D. pH : 8-9 E. Melting/freezing point : 0

F. Boiling point/boiling

range

: Lowest known value: 100°C (212°F) (water). Weighted average: 106.21°C (223.2°F)

G. Flash point : Closed cup: 100°C (212°F)

Burning time : Not applicable. : Not applicable. **Burning rate**

H. Evaporation rate : Highest known value: 0.36 (water) Weighted average: 0.34compared with butyl

acetate

Flammability (solid, gas) : Not available. : 1.1 - 14%

J. Lower and upper explosive (flammable)

limits

: Highest known value: 3.2 kPa (23.8 mm Hg) (at 20°C) (water).

L. Solubility : Easily soluble in the following materials: cold water and hot water.

: Not available. Solubility in water

M. Vapour density : Highest known value: 5.1 (Air = 1) (dipropylene glycol methyl ether).

N. Relative density : 1.105 to 1.286 g/cm³

O. Partition coefficient: n-

octanol/water

K. Vapour pressure

: Not available.

P. Auto-ignition temperature

: Lowest known value: 207°C (404.6°F) (dipropylene glycol methyl ether).

Q. Decomposition temperature

: Not available.

SADT

R. Viscosity Kinematic (40° C (104° F)): $>0.205 \text{ cm}^2/\text{s}$ ($>20.5 \text{ mm}^2/\text{s}$)

S. Molecular weight : Not applicable.

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Section 9. Physical and chemical properties

Section 10. Stability and reactivity

A. Chemical stability

The product is stable.

Possibility of hazardous: Under normal conditions of storage and use, hazardous reactions will not occur.

reactions

B. Conditions to avoid : No specific data.

C. Incompatible materials

Keep away from the following materials to prevent strong exothermic reactions:

oxidising agents, strong alkalis, strong acids.

D. Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

There are no data available on the mixture itself. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Ingestion may cause nausea, diarrhea and vomiting.

A. Potential acute health effects

Inhalation : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards.

Skin contact : Causes skin irritation. May cause an allergic skin reaction.

Eye contact : Causes serious eye irritation.

Over-exposure signs/symptoms

Inhalation : No specific data. Ingestion : No specific data.

Skin contact : Adverse symptoms may include the following:

> irritation redness

Eye contact : Adverse symptoms may include the following:

> pain or irritation watering redness

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
3-iodo-2-propynyl butylcarbamate (IPBC)	LD50 Oral	Rat	1470 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
3-iodo-2-propynyl butylcarbamate (IPBC)	Eyes - Irritant	Mammal - species unspecified	-	-	-

Sensitisation

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Section 11. Toxicological information

Product/ingredient name	Route of exposure	Species	Result
4,5-dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	skin	Mammal - species unspecified	Sensitising
3-iodo-2-propynyl butylcarbamate (IPBC)	skin	Mammal - species unspecified	Sensitising

Mutagenicity

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Reproductive toxicity

Developmental effects : No known significant effects or critical hazards.Fertility effects : No known significant effects or critical hazards.

Teratogenicity

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)

Name	3.3	Route of exposure	Target organs
3-iodo-2-propynyl butylcarbamate (IPBC)	Category 1	-	trachea

Aspiration hazard

Based on available data, the classification criteria are not met.

Potential chronic health effects

Chronic toxicity

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity
 No known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 Fertility effects
 No known significant effects or critical hazards.

ATE value

Route	Result
Inhalation (dusts and mists)	108.41 mg/l

Section 12. Ecological information

A. Aquatic and terrestrial toxicity

Ecotoxicity: This material is toxic to aquatic life with long lasting effects.

Product/ingredient name	Result	Species	Exposure
4,5-dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	Acute EC50 0.0057 mg/l	Crustaceans - Daphnia magna	48 hours
, , ,	Acute LC50 0.014 mg/l	Fish - Lepomis macrochirus	96 hours
	Acute LC50 0.0027 mg/l	Fish - Onchorhynchus mykiss	96 hours
	Chronic NOEC 0.00056 mg/l	Fish	97 days
3-iodo-2-propynyl	Acute EC50 0.022 mg/l	Algae - Scenedesmus	72 hours
butylcarbamate (IPBC)		subspicatus	
	Acute EC50 0.16 mg/l	Crustaceans - Daphnia magna	48 hours
	Acute LC50 0.067 mg/l	Fish - Oncorhynchus mykiss	96 hours

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			Chronic NOEC 70 p	pb Fresh water		hynchus mykiss - edgling, Hatchling,	96 hours	
В.	Persistence and	rsistence and degradability						
	Product/ingredie	/ingredient name Aquatic half-life		Photolysis		Biodegrada	ability	
	4,5-dichloro-2-oct		-	-		Readily		
	isothiazol-3-one (3-iodo-2-propynyl butylcarbamate (I	ì í	-	-		Readily		
C.	Bioaccumulative Not available.	potential						
	Mobility in soil Soil/water partitic coefficient (Koc)	on :	Not available.					
E.	Other adverse ef	fects :	No known significar	nt effects or critic	cal hazards.			
Se	ection 13. D	Disposa	l considerat	ions				
	Disposal precaut		Disposal of this pro- with the requirement and any regional loc recyclable products disposed of untreate all authorities with jul landfill should only to This material and its taken when handling Empty containers of spilt material and ru	nts of environments all authority requivia a licensed well to the sewer unisdiction. Was be considered where the container must gremptied container may retain and contact	ntal protection ar uirements. Dispo- vaste disposal co- unless fully comp- te packaging sho- hen recycling is r be disposed of i iners that have n in some product	nd waste disposal leads of surplus and representation. Waste sholiant with the required be recycled. In the feasible. In a safe way. Care of been cleaned or residues. Avoid dispose of surplus and safe way.	egislation non- non- ould not be rements of noineration or e should be rinsed out.	
Se	ection 14. T	ranspo	rt information	on				
			UN	IM	IDG	IATA		
Α.	UN number	UN3082		UN3082		UN3082		
	UN proper pping name		ntally hazardous liquid, n.o.s. (paint)	Environmentally substance, liqu Marine pollutan 2-octyl-2H-isoth (DCOIT))	id, n.o.s. (paint). it (4,5-dichloro-	Environmentally h substance, liquid,		
	Transport	9		9		9		
haz	zard class(es)		*2		2		>	
D.	Packing group	III		III		Ш		
	Environmental zards	Yes.		Yes.		Yes.		

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Section 12. Ecological information

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Section 14. Transport information

F. Additional information	Tunnel restriction code: (-) Hazard identification number: 90	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. Emergency schedules F-A, S-F	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.
			I

Special precautions for

: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in accordance with ADR/RID, IMDG/IMO and ICAO/IATA and national regulation.

Section 15. Regulatory information

A. Regulation according to ISHA

ISHA article 117

(Harmful substances prohibited from

manufacture)

ISHA article 118

(Harmful substances requiring permission)

Article 2 of Youth Protection Act on

Substances Hazardous

to Youth

: None of the components are listed.

: None of the components are listed.

Exposure Limits of Chemical Substances and Physical Factors

: Not applicable.

None of the components have an OEL.

ISHA Enforcement Regs: None of the components are listed. **Annex 19 (Exposure** standards established

for harmful factors)

ISHA Enforcement Regs

Annex 21 (Harmful factors subject to Work

Environment Measurement)

ISHA Enforcement Regs

Annex 22 (Harmful **Factors Subject to Special Health Check-**

up)

Standard of Industrial

Safety and Health Annex 12 (Hazardous substances subject to control)

: None of the components are listed.

: None of the components are listed.

: None of the components are listed.

B. Regulation according to Chemicals Control Act

CCA Article 11 (TRI) : None of the components are listed.

CCA Article 18 Prohibited (K-Reach

Article 27)

: None of the components are listed.

CCA Article 19 Subject

to authorization (K-Reach Article 25)

: None of the components are listed.

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Section 15. Regulatory information

CCA Article 20 Toxic

Chemicals (K-Reach

Article 20)

: Not applicable

CCA Article 20 Restricted (K-Reach

Article 27)

: None of the components are listed.

CCA Article 39 (Accident Precaution

Chemicals)

: None of the components are listed.

Existing Chemical Substances Subject to

Registration

: The following components are listed: 1,2-Benzisothiazol-3(2H)-one, 5-Chloro-2-methyl-3(2H)-isothiazolone, mixt. With 2-methyl-3(2H)-isothiazolone, 2-Methyl-

4-isothiazolin-3-one; 2-Methyl-2H-isothiazol-3-one

C. Dangerous Materials **Safety Management Act** : Class: Class 4 - Flammable Liquid

Item: Class 3 petroleums - Water-insoluble liquid

Threshold: 2000 L

D. Wastes regulation

Dispose of contents and container in accordance with all local, regional, national and international regulations.

E. Regulation according to other foreign laws

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

A. References : Not available. B. Date of issue/Date of

revision

: 21.05.2021

: 1.03

C. Version

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D. Other

▼ Indicates information that has changed from previously issued version.

Key to abbreviations

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

Notice to reader

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Section 16. Other information

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.

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