

Product Name: LUS-120 Black SDS No. 037-U112456

SDS No. 037-U112456 First issue: 2017/05/29 Revised: 2017/10/05

Safety Data Sheets

1. Identification

Product Name : LUS-120 Black

Order No. : LUS12-K-BA / LUS12-K-B2

Ink Ver. : 2

General Use : Ink jet printing ink

Product Description : UV Inkjet ink SDS Number : 037-U112456

Manufacture

Company Name : Mimaki Engineering Co., Ltd.

Address : 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN

Telephone No. : +81-268-64-2413

Importer / Distributor Established in Singapore

Company Name : MIMAKI SINGAPORE PTE. LTD.

Address : 31 Kaki Bukit Road 3 Singapore 417818 TechLink #02-03

Telephone No. : +65-6508-2789 Emergency Telephone No. : +81-268-64-2281

2. Hazards Identification

[GHS Classification]

Physical Hazards

Flammable Liquids : Not classified

Health Hazards

Sensitization – Skin : Category 1
Toxic to Reproduction : Category 2

The above list does not include category being non-classifiable or not-applicable.

[Label Elements]

Symbol





Signal Word Warning

Hazard Statements

H317 - May cause an allergic skin reaction



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H361f - Suspected of damaging fertility

Precautionary Statements

P201 - Obtain special instructions before use

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P308 + P313 - IF exposed or concerned: Get medical advice/attention

[Other hazards]

Not Applicable.

[Hazards not otherwise classified (HNOC)]

Not Applicable.

3. Composition / Information on Ingredients

Substance/mixture: mixture

Chemical identity: No information available

Chemical Name	CAS No	EC No	weight-%	
Monomers	CBI	CBI	80-90	
Diphenyl(2,4,6-trimethylbenzoyl)ph	75980-60-8	278-355-8	5-10	
osphine oxide	79900-00-0	278-399-8	9-10	
Photoinitiator	CBI	CBI	1-5	
Phosphine oxide,	162881-26-7	400 040 5	1 5	
phenylbis(2,4,6-trimethylbenzoyl)-	102001-20-7	423-340-5	1-5	
CARBON BLACK	1333-86-4	215-609-9	1-5	
Additives	CBI	CBI	1-5	
Others	CBI	CBI	<1	
Copper compounds	CBI	CBI	<1	

4. First Aid Measures

[Description of first aid measures]

General advice : If symptoms persist, call a physician. Do not breathe

dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on

clothing.

Inhalation : Move to fresh air in case of accidental inhalation of vapors. If

symptoms persist, call a physician.

Skin Contact : If skin irritation persists, call a physician. Wash off immediately

with soap and plenty of water. Wash contaminated clothing before



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reuse.

Eye Contact : Rinse immediately with plenty of water and seek medical advice.

Remove contact lenses, if present and easy to do. Continue rinsing.

Keep eye wide open while rinsing.

Ingestion : If swallowed, call a poison control center or physician immediately.

Do not induce vomiting without medical advice. Never give anything

by mouth to an unconscious person.

[Most important symptoms and effects, both acute and delayed]

Symptoms : No data available.

[Indication of any immediate medical attention and special treatment needed]
Self-protection of the first : Use personal protective equipment as required.

aider

Note to physicians : May cause sensitization of susceptible persons.

Treat symptomatically

5. Fire Fighting Measures

Flammable Properties : Flash Pont, 109 ° C / 228 ° F

Suitable Extinguishing : Dry chemical, CO2, water spray or alcohol-resistant foam.

Media

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

Media

Specific extinguishing : No data available

methods

Specific hazards arising

from the chemical

: In the event of fire and/or explosion do not breathe fumes. May

cause sensitization by inhalation and skin contact. Thermal

decomposition can lead to release of irritating and toxic gases and

vapors.

Protective equipment and

: Wear self-contained breathing apparatus and protective suit.

precautions for

firefighters

6. Accidental Release Measures

Personal precautions : Use personal protective equipment as required. Avoid contact with

skin, eyes or clothing. Keep people away from and upwind of



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spill/leak. Evacuate personnel to safe areas.

Environmental : Collect spillage. Do not allow into any sewer, on the ground or into

Precautions any body of water. Should not be released into the environment.

[Methods and material for containment and cleaning up]

Methods for containment : Absorb or cover with dry earth, sand or other non-combustible

material and transfer to containers.

Methods for cleaning up : Use personal protective equipment as required. Soak up with inert

absorbent material. Pick up and transfer to properly labeled

containers. Clean contaminated surface thoroughly.

7. Handling and Storage

[Precautions for Safe Handling]

Advice on safe handling : Use personal protective equipment as required. Avoid contact with

skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse. Do not eat, drink or smoke

when using this product. Use with local exhaust ventilation.

[Conditions for Safe Storage, including any Incompatibilities]

Storage Conditions : Keep out of the reach of children. Keep in properly labeled containers.

Keep containers tightly closed in a cool, well-ventilated place. Avoid

direct sunlight or high temperature.

Prevents Handling of

Incompatible

Substances or Mixtures

: No information available

8. Exposure Controls / Personal Protection

[Control parameters]

Exposure Limits

Chemical Name	ACGIH	Singapore	
CARBON BLACK	TWA: 9	PEL: 3.5 mg/m3	
1333-86-4	TWA: 3 mg/m3 inhalable particulate matter		
Copper compounds	TWA: 1 mg/m3 Cu dust and mist		

[Appropriate engineering controls]

Engineering Controls : Ensure adequate ventilation, especially in confined areas

Individual protection measures, such as personal protective equipment

Eye/face protection : Tight sealing safety goggles. Face protection shield.

Hand Protection : Gloves made of plastic or rubber.



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Skin and body : Suitable protective clothing. Apron. Gloves made of plastic or

protection rubber.









9. Physical and Chemical Properties

Appearance - Physical State : liquid

- Color : black

Odor : Characteristic odor

Odor Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : 95 °C / 203 (Acceptance by the lowest flash point)

Evaporation rate : No data available
Flammability (solid, gas) : No data available
Flammability Limits in Air : No data available

Upper flammability limits

Lower flammability limit

Vapor Pressure : No data available
Vapor density : No data available

Specific gravity : 1.0-1.3

Water solubility

Solubility(ies)

Partition coefficient

Autoignition temperature

Decomposition temperature

Kinematic viscosity

Solubility(ies)

No data available

The data available

No data available

No data available

The data available

No data available

The data available

No data available

The data available

[Other information]

Molecular weight : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Softening point : No data available



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VOC Content (%) : No data available

Density : No data available

Bulk density : No data available

10. Stability and Reactivity

Stability : Stable under normal conditions.
Possibility of Hazardous : None under normal processing.

Reactions

Conditions to Avoid : Heat, flames and sparks
Incompatible Materials : Strong oxidizing agents.

Hazardous : Thermal decomposition can lead to release of irritating and toxic

decomposition products gases and vapors.

11. Toxicological Information

[Information on likely routes of exposure]

INHALATION : No data available.

INGESTION : May be harmful if swallowed. May cause additional affects as listed

under "Inhalation". Ingestion may cause irritation to mucous

membranes

Skin Contact : No data available.

Eye contact : No data available.

[Information on toxicological effects]

Acute toxicity : LD/LC50 values that relevant for classification.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
CARBON BLACK	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-

[Delayed and immediate effects as well as chronic effects from short and long-term exposure]

Skin : No data available.

corrosion/irritation

Serious eye damage/eye : No data available.

irritation

Sensitization : No data available.

Germ cell mutagenicity : No data available.

Carcinogenicity : The table below indicates whether each agency has listed any

ingredient as a carcinogen.

Chemical Name	IARC
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CARBON BLACK Group 2B

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans.

Reproductive toxicity : No data available.

STOT - single exposure : No data available.

STOT - repeated : No data available.

exposure

Chronic toxicity : Repeated contact may cause allergic reactions in very susceptible

persons Avoid repeated exposure

Subchronic toxicity
No data available.
No data available.
Other adverse effects
No data available.
No data available.
No data available.

[Numerical measures of toxicity]

Unknown Acute : 98.4% of the mixture consists of ingredient(s) of unknown toxicity.

Toxicity

Acute oral toxicity : 98.4 % of the mixture consists of ingredient(s) of unknown acute oral

toxicity.

Acute dermal toxicity : 98.4 % of the mixture consists of ingredient(s) of unknown acute

dermal toxicity.

Acute inhalation : 98.4 % of the mixture consists of ingredient(s) of unknown acute

toxicity - gas inhalation toxicity (gas)

Acute inhalation : 98.4 % of the mixture consists of ingredient(s) of unknown acute

toxicity - Vapor inhalation toxicity (vapor).

Acute inhalation : 98.4 % of the mixture consists of ingredient(s) of unknown acute

toxicity -dust/mist inhalation toxicity (dust/mist)

12. Ecological Information

Handling is noted because it might influence the environment when leaking and abandoning it. Especially, note that the product doesn't flow directly to ground, the river, and the drain ditch.

Ecotoxicity : The table below indicates component(s) of known hazards to the

aquatic environment.

98.2% of the mixture consists of component(s) of unknown hazards to

the aquatic environment



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Chemical Name	Algae/aquatic plants	Fish	Crustacea	Terrestrial organism
CARBON BLACK	-	-	EC50(24h): > 5600 mg/L (Daphnia magna)	-

Persistence and : No data available.

Degradability

Bioaccumulation : No data available.

Mobility : No data available.

Other adverse effects : No data available.

13. Disposal Considerations

[Waste treatment methods]

Waste from Residues /

: Disposal should be in accordance with applicable regional, national

Unused Products

and local laws and regulations.

Contaminated

: Disposal should be in accordance with applicable regional, national

packaging

and local laws and regulations.

Safe handling and

: No data available.

methods of disposal

14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

[IMDG]

UN/ID no : Not regulated
Proper shipping name : Not regulated
Hazard Class : Not regulated
Packing Group : Not regulated

Special Provisions : none

Marine pollutant : Not Applicable
Environmental hazard : Not Applicable

[IATA]

UN/ID no : Not regulated
Proper shipping name : Not regulated
Hazard Class : Not regulated
Packing Group : Not regulated



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Special Provisions : none

[RID]

UN/ID no : Not regulated
Proper shipping name : Not regulated
Hazard Class : Not regulated
Packing Group : Not regulated
Environmental hazard : Not Applicable

Special Provisions : none

[ADR]

UN/ID no : Not regulated
Proper shipping name : Not regulated
Hazard Class : Not regulated
Packing Group : Not regulated
Environmental hazard : Not Applicable

Special Provisions : none

15. Regulatory Information

[National Regulations]

Poisons Act : Not Applicable
Fire Safety Act : Not Applicable
Environtmental : Not Applicable

Protection Management

Law

We adopted 1.0% or more as a threshold value in case of no provision in a law.

16. Other Information

[Reference]

LOLI Database (ChemADVISOR,Inc.)

[The reference on GHS classification results]

EU CLP(1272/2008)Annex VI Table 3.1

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