

SAFETY DATA SHEET

Date of issue :September 2021

SIGMA LUMINA DEFENDER
SECTION 1 Identification of the substance

Trade Name	SIGMA LUMINA DEFENDER
Product Type	Water based paint
Manufacturer's data	PT. SIGMA UTAMA Jl. Landbouw No.1 Citeureup - Bogor, INDONESIA + 62-21-87 3042 (Fax)
Emergency Telephone No.	+ 62-21-87 6310 (Office Hours)

SECTION 2 Hazard identification

OSHA/HCS Status Considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of the substance or mixture SKIN CORROSION/IRRITATION - Category 1
AQUATIC TOXICITY (CHRONIC) - Category 3

Label elements
Hazard pictograms



Hazard Statements H315- Causes skin irritation
H317- May cause an allergic skin reaction
H411- Toxic to aquatic life

SECTION 3 Composition

Ingredient	CAS No	Conc. range (%)
Full acrilik	-----	50-60
Titan tiona	13463-67-7	5-20
Propionic acid	25265-77-4	<1
diuron	330-54-1	<0.05
2-Octyl-2H-isothiazol-3-one	26530-20-1	<0.05
Sodium nitrate	7631-99-4	<0.05
5-chloro-2-methyl-4-iso-thiazolin-3-one	55965-84-9	<0.05

Concentrations shown as range to protect confidentiality or due to batch variation.
There are no additional ingredients presents which, within the currenet knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and environment and hence require reporting in this section

SECTION 4 First Aid Measure

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If breathing is irregular, drowsiness, loss of consciousness or cramps : call 112 and give immediate treatment (first aid)

Eye contact Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention.

Inhalation Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If

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Skin contact	unconscious, place in recovery position and get medical attention immediately Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting unless directed to do so by medical personnel. Lower the head so that vomit will not re-enter the mouth and throat

SECTION 5 Fire Fighting Measure

Extinguishing media	Recommended : Waterbased product, No risk of fire Not to be used : Waterbased product, No risk of fire
Hazards from the substance or mixture	In a fire or heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. 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 combustion products	Decomposition products may include the following materials : carbondioxide, carbonmonoxide
Special equipment for fire fighter	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6 Accidental release measurement

Personal precautions, protective equipment and emergency procedures	No action shall be taken involving any personal risk or without suitable training. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations. Avoid all direct contact with the spilled material. Exclude sources of ignition and be aware of explosion hazard. Ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	Avoid dispersal of spilled 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
Methods for cleaning up	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows.

SECTION 7 Handling and storage

Handling	Use proper personal protective equipment (see section 8). Do not breathe vapour, avoid swallowing, avoid direct contact with eyes, skin and clothing. Make sure the paint is used in a state of adequate air circulation (good ventilation). Use a respirator if ventilation or air circulation is inadequate. Do not allow spills / leaks. Do not eat and or drink around the area where the painting process is taking place using this product. Clean your hands and wash your face before eating and or drinking when you have finished using this product
Storage	Make sure the product is tightly closed during storage. Store and use away from sources of heat, sparks or flames. Avoid refrigeration, as the product may become viscous. Store in an area that has a fairly good air circulation system. Storage must also follow applicable regulations, both local regulations and national regulations.

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SECTION 8 Exposure control/personal protection

Ingredient	Exposure limit
Titan tiona	ACGIH/TLV TWA : 10 mg/m ³ OSHA PEL TWA 15 mg/m ³
5-chloro-2-methyl-4-iso-thiazolin-3-one	OEL SHORT TERM VALUE: 0,2 mg/m ³ LONG TERM VALUE: 0,2 mg/m ³

Personal Protection


Use GOGGLES OR FACE SHIELD
 USE APRRON OR OTHER CLOTHING TO AVOID SKIN CONTACT
 Use clothes that can protect the whole body and also use shoes that are resistant to chemicals

Engineering controls

Keep gas, vapor, or dust cocentration below any lower explosive limit. Arrange sufficient ventilation by local exhaust ventilation and good general ventilation to keep the airborne concentrations of vapors or dust lowest possible and below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location

Hygiene measures

Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

SECTION 9 Physical and chemical properties

Physical	Liquid-colored
Odor	Characteristic odor
Solid content	33 ± 2 % (by volume)
Flash point	-
Vapor density	<1 (air=1)
Spesific density	1.25 ± 0.15 kg /litre
Viscosity	102 ± 2 ku
Solubilities	soluble in water

SECTION 10 Stability and reactivity

Reactivity chemical	No data Available
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur
Conditions to avoid	No data Available
Stability chemical	This product quite stabil
Hazardous decomposition products	Under normal conditions of storage and use, hazardous reactions will not occur.

SECTION 11 Toxicological information

Ingredient	Oral LD 50, mg/kg	Skin LD 50, mg/kg	Inhalation vapor LD 50, mg/l/4 hours
Titan tiona	>5000 mg/kg, rat	-	>6,82 mg/L, rat
2-Octyl-2H-isothiazol-3-one	>5000 mg/kg, rat	>2000 mg/kg, rat	-

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5-chloro-2-methyl-4-iso-thiazolin-3-one	>2000 mg/kg, rat	>5000 mg/kg, rat	-
Propionic acid	>3200 mg/kg, rat	>20mL/kg, guinea pig	>3,55mg/L, rat

SECTION 12 Ecological information

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	96 hr EC50 algae, mg/l
Titan tiona	Tidak ada data	Tidak ada data	Tidak ada data
2-Octyl-2H-isothiazol-3-one	0,03, Rainbow trout	0,1, Daphnia magna	0,084, Scenedesmus subspicatus
Diuron	14,7, Rainbow trout	1,4Daphnia magna	0,031 Scenedesmus subspicatus
5-chloro-2-methyl-4-iso-thiazolin-3-one	0,22, Rainbow trout	0,1, Daphnia magna	0,048, Pseudokirchneriella subcapitata
Propionic acid	30, Phimephales promelas	>95 Daphnia magna	18,4, Selenastrum capricornutum

Toxicity on activated sludge:

Ingredient	EC50, mg/L activated sludge
5-chloro-2-methyl-4-iso-thiazolin-3-one	7,92 OECD 209
2-Octyl-2H-isothiazol-3-one	30,4 OECD 209
Diuron	>10000 OECD 309

Environmental precaution : harmful to aquatic organism, may cause long term adverse effect in the aquatic environment.

SECTION 13 Disposal consideration

Do not allow to enter drains or watercourses. When burning, it must be controlled. Used materials and/or containers must be disposed of as hazardous waste. Used containers can be reused after cleaning. If the material and/or container disposed of mixed with other waste, then this rule is no longer valid, must be coded accordingly. For more clear and correct information regarding the rules for disposal in each area.

SECTION 14 Transport information

Classification for ground and rail transport : Unregulated

Classification for sea transportation : Unregulated

Classification for air transport : Unregulated

Transport hazard class : Not regulated

UN Number : Not set

IATA Number : Not set

IMO Number : Not set

Transport classifications may vary based on the size of the container and also based on local or state regulations.

Make sure it is always transported in a tightly closed container and placed with the lid facing

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SECTION 15 Regulatory information

Environmental, health and safety regulations for these products So far, it is known that there are no national or local regulations that apply to this product (including the ingredients of this product).

EU Regulation 1994/45/EC This product is classified as a hazardous product

R43 Resiko Risk Phrases

R22

S2 Safety Phase - Keep out of reach of children

S23 - Do not breathe vapour

S24 - Do not contact skin

S37 - Wear suitable gloves

S46 - If swallowed, seek help immediately

medical and show me this sheet

S51 - Use in a well-ventilated area

SECTION 16 Other information

Abbreviation and
acronyms

GHS = Globally Harmonized System of Classification and Labelling of
Chemicals

Disclaimer

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