

SAFETY DATA SHEET

Date of issue : September 2021

SIMACOVER EP GLASSFLAKE 3406-00 BASE
SECTION 1 Identification of the substance

Trade Name	SIMACOVER EP GLASSFLAKE BASE
Product Code	3406--00
Product Type	Solvent based epoxy
Intended uses	Protective and industrial coating

MANUFACTURER'S DATA

NAME	PT. SIGMA UTAMA
ADDRESS	Jl. Landbouw No. 1, Citeureup – Bogor, INDONESIA
FAX. NO.	+62 - 21 – 875 3042
EMERGENCY TELEPHONE NO.	+62 - 21 – 875 6310 (office hours)

SECTION 2 Hazard identification
Classification of the substance based on GHS

FLAMMABLE LIQUIDS	Category 3
SKIN CORROSION/IRRITATION	Category 2
SERIOUS EYE DAMAGE/EYE IRRITATION	Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation)	Category 3
AQUATIC TOXICITY (CHRONIC)	Category 2

Label elements
Pictograms :

Signal Word

Danger

Hazard statements

H226- Flammable liquid and vapor
 H318- Causes serious eye damage
 H315- Causes skin irritation
 H317- May cause an allergic skin reaction
 H332-Harmful if inhaled
 H312-Harmful in contact with skin
 H319-Causes serious Irritation
 H335-May cause respiratory irritation
 H304-May be fatal if swallowed and enters airways
 H360-May damage fertility or the unborn child

Precautionary statements:
Prevention

Avoid breathing vapors, spray or mists. Wear protective gloves/protective clothing/eye protection/face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep out of reach of children. Keep container tightly closed. Use personal protective equipment as required.

Response

IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs : get medical attention.

Hazardous ingredients

Xylene
 Bisphenol A –epichlorohydrin

Other Hazards

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SIMACOVER EP GLASSFLAKE 3406-00 BASE
SECTION 3 Composition

Ingredient	CAS No	Conc. range (%)	GHS Classification
Xylene	1330-20-7	5 - 15	Flam. Liq. 3;H226 Acute Tox. 4;H332 Acute Tox. 4;H312 Skin Irrit. 2;H315 Eye Irrit. 2;H319 STOT SE 3;H335 Asp. Tox. 1;H304
Titanium dioxide	0013463-67-7	10-20	-----
Bisphenol A -epichlorohydrin	25068-38-6	20 - 35	Skin Irrit H317 Eye Irrit H318 Asp. Tox. H335 Fertility Dam H360
Silica Flour	14808-6-7	18-20	-----
Talc	14807-96-6	10-15	-----
Glassflake	65997-17-3	10-15	-----

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 unconscious, place in recovery position and get medical attention immediately.
Skin contact	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
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.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation

SECTION 5 Fire Fighting Measure

Extinguishing media	Recommended : Alcohol resistant foam, CO ₂ , powder, water spray (foam) Not to be used : water jet
Hazards from the substance or mixture	Flammable liquid and vapor. In a fire or heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. 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 : carbon oxides metal oxide/oxides

Special protective equipment for fire fighter :

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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. Approach 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). Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilled product.

SECTION 7 Handling and storage
Handling

Vapor are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should be used only in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. No sparking tools should be used.

Avoid inhalation of vapour, dust and spray mist. Avoid contact with skin and eyes. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Appropriate personal protective equipment: see section 8. Always keep in containers made from the same material as the original one.

Storage

Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Keep out of the reach of children. Keep away from : Oxidizing agents, strong alkalis, strong acids. No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with local regulations.

SECTION 8 Exposure control/personal protection

Ingredient	Exposure limit
Xylene	OSHA 2013 TWA : ppm (435 mg/m ³)
Titanium Dioxide	OSHA PEL TWA 15 mg/m ³

Personal Protection



Respiratory Protection
Use a NIOSH APPROVED RESPIRATOR

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Eye Protection

Use GOGGLES OR FACE SHIELD

Hand Protection (Gloves)

RUBBER GLOVES AS NEEDED

Other Protective clothing or equipment

USE APRRON OR OTHER CLOTHING TO AVOID SKIN CONTACT.

Work / hygienic practices

Wash skin and exposed clothing thoroughly with soap and water after use.

Personal protective equipment should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Use a properly fitted, air-purifying or air fed respirator complying with an approved standard. Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. Safety eyewear should be used when there is a likelihood of exposure.

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.

Environmental exposure controls

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, filter or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9 Physical and chemical properties

Physical	Liquid
Colour	White, grey, colour by requested
Odor	Solvent-like
Flash point	Closed cup ; 88,5 °C
Vapor density	Heavier than air
Specific density	1.50 ± 0.15 kg/litre
Viscosity	40-45 poise/Str
Solubility(ies)	Insoluble : cold water & hot water

SECTION 10 Stability and reactivity

Reactivity and Chemical stability	The product is stable
Hazardous decomposition products	Under normal conditions of storage and use, Hazardous decomposition products should not be produced
Conditions to avoid	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

SECTION 11 Toxicological information

Ingredient	Oral LD 50, mg/kg	Skin LD 50, mg/kg	Inhalation vapor LD 50, mg/l/4 hours
Bisphenol A –epicholorohydrin	4000 rat	20000 rabbit	No data

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Xylene	4300 mg/kg, rat	>2000 mg/kg, rabbit	6350 ppm, rat
Titanium dioxide	10,000, Rat	10,000 Rabbit	No data
Silia flour	No data	No data	No data
Glassflake	No data	No data	No data

SECTION 12 Ecological information

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	96 hr EC50 algae, mg/l
Bisphenol A – epichlorohydrin	9.4, Marinewater fish	21 days: 3.16, Daphnia magna	96 hours: 1.1 Marinewater algae
Titanium dioxide	1,000.00, Fundulus heteroclitus	5.50, Daphnia magna	5.83 (72 hr), Pseudokirchneriella subcapitata
Xylene	3.30, Oncorhynchus mykiss	8.50, Palaemonetes pugio	100.00 (72 hr), Chlorococcales
Silia flour	Not Available	Not Available	Not Available
Glassflake	Not Available	Not Available	Not Available

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




SECTION 13 Disposal consideration

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Residues of the product is listed as hazardous waste. Dispose of according to all state and local applicable regulations.

Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Spillage, remains, discarded clothes and similar should be discarded in a fireproof container. The information presented below only applies to the material as supplied. The identification based on characteristic or listing may not apply if the material has been used or otherwise contaminated.

SECTION 14 Transport information

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.

	UN no.	Proper shipping name	Transport hazard class(es)	PG*	Env*	Additional information
ADR/RID Class	UN1263	Paint	3 - 	III	Yes	
IMDG Class	UN1263	Paint (solvent naphtha(petroleum),light arom	3 - 	III	Yes	
IATA Class	UN1263	Paint	3 - 	III	No	

PG* : packing group
Env.* : Environmental hazards

SECTION 15 Regulatory information

Safety, health and environmental regulation/legislation specific for the substance or mixture

SECTION 16 Other information

Abbreviations and acronyms
Chemicals

GHS = Globally Harmonized System of Classification and Labelling of

DISCLAIMER

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SIMACOVER EP GLASSFLAKE 3406-00 HARDENER
SECTION 1 Identification of the substance

Trade Name	SIMACOVER EP GLASSFLAKE HARDENER
Product Code	3406--00
Product Type	Solvent based epoxy
Intended uses	Protective and industrial coating

MANUFACTURER'S DATA

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Label elements
Pictograms :

Signal Word

Danger

Hazard statements

H226- Flammable liquid and vapor
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Precautionary statements:
Prevention

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Response

IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs : get medical attention.

Hazardous ingredients

Ethylendiamine

Other Hazards

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SIMACOVER EP GLASSFLAKE 3406-00 HARDENER
SECTION 3 Composition

Ingredient	CAS No	Conc. range (%)	GHS Classification
Ethylenediamine	107-15-3	<5	Flam. Liq. 3;H226 Acute Tox. 4;H312 Skin Irrit H317 Skin Irrit. 2;H315 Eye Irrit. 2;H319 STOT SE 3;H335 Asp. Tox. 1;H304 Asp. Tox. 2;H302 Skin Irrit. 1;H314 STOT SE 2;H334
Cashew, nutshell liq, polymer with ethylenediamine and formaldehyde	68413-28-5	30-50	Skin Irrit H317 Skin Irrit. 2;H315 Eye Irrit. 2;H319 STOT SE 2;H334
Silica Flour	14808-6-7	40-50	-----

SECTION 4 First Aid Measure

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Skin contact	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
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.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation

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Extinguishing media	Recommended : Alcohol resistant foam, CO ₂ , powder, water spray (foam) Not to be used : water jet
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Hazardous combustion products	Decomposition products may include the following materials : carbon oxides metal oxide/oxides
Special protective 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.

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SIMACOVER EP GLASSFLAKE 3406-00 HARDENER
SECTION 6 Accidental release measurement
Personal precautions, protective equipment and emergency procedures

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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. Approach 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). Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilled product.

SECTION 7 Handling and storage
Handling

Vapor are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should be used only in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. No sparking tools should be used. Avoid inhalation of vapour, dust and spray mist. Avoid contact with skin and eyes. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Appropriate personal protective equipment: see section 8. Always keep in containers made from the same material as the original one.

Storage

Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Keep out of the reach of children. Keep away from : Oxidizing agents, strong alkalis, strong acids. No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with local regulations.

SECTION 8 Exposure control/personal protection

Ingredient	Exposure limit
Ethylenediamine	OSHA PEL TWA : 25 mg/m ³
Cashew, nutshell liq, polymer with ethylenediamine and formaldehyde	NE

Personal Protection


Respiratory Protection
Use a NIOSH APPROVED RESPIRATOR
Eye Protection
Use GOGGLES OR FACE SHIELD

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SIMACOVER EP GLASSFLAKE 3406-00 HARDENER

Hand Protection (Gloves)
 RUBBER GLOVES AS NEEDED
 Other Protective clothing or equipment
 USE APRON OR OTHER CLOTHING TO AVOID SKIN CONTACT.
 Work / hygienic practices
 Wash skin and exposed clothing thoroughly with soap and water after use.

Personal protective equipment should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Use a properly fitted, air-purifying or air fed respirator complying with an approved standard. Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. Safety eyewear should be used when there is a likelihood of exposure.

Engineering controls

Keep gas, vapor, or dust concentration 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.

Environmental exposure controls

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, filter or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9 Physical and chemical properties

Physical	Liquid
Colour	brown reddish
Odor	Solvent-like
Flash point	Closed cup ; 25,5 °C
Vapor density	Heavier than air
Specific density	1.20 ± 0.15 kg/litre
Viscosity	50.000-80.000 cPs
Solubility(ies)	Insoluble : cold water & hot water

SECTION 10 Stability and reactivity

Reactivity and Chemical stability	The product is stable
Hazardous decomposition products	Under normal conditions of storage and use, Hazardous decomposition products should not be produced
Conditions to avoid	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

SECTION 11 Toxicological information

Ingredient	Oral LD 50, mg/kg	Skin LD 50, mg/kg	Inhalation vapor LD 50, mg/l/4 hours
Ethylenediamine	1200 mg/kg, rat	730 mg/kg, rabbit	300 mg/m ³ , mouse
Cashew, nutshell liq, polymer with ethylenediamine and formaldehyde	2001 mg/kg, oral, rat	No data	No data

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Silia flour	No data	No data	No data
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SECTION 12 Ecological information

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	96 hr EC50 algae, mg/l
Silica flour	Not Available	Not Available	Not Available
Ethylenediamine	115,7, Fathead minnow;	16.7 mg/l (Daphnia Magna)	71 mg/l (green algae)
Cashew, nutshell liq, polymer with ethylenediamine and formaldehyde	Not Available	Not Available	Not Available

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

SECTION 13 Disposal consideration




The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Residues of the product is listed as hazardous waste. Dispose of according to all state and local applicable regulations.

Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Spillage, remains, discarded clothes and similar should be discarded in a fireproof container.

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SECTION 14 Transport information
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.

	UN no.	Proper shipping name	Transport hazard class(es)	PG*	Env*	Additional information
ADR/RID Class	UN1263	Paint	3 -	III	Yes	
IMDG Class	UN1263	Paint (solvent naphtha(petroleum),light arom	3 -	III	Yes	
IATA Class	UN1263	Paint	3 -	III	No	

PG* : packing group

Env.* : Environmental hazards

SECTION 15 Regulatory information

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