SAFETY DATA SHEET



Date of issue 8/10/2023 (month/day/year)

Version 1

Section 1. Chemical product and company identification

: AQUAPON WB EP EPOXY CLEAR- B A. Product name

Product code : 00399812

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

Product use : Professional applications, Used by spraying.

Use of the substance/

: Coating.

mixture

Uses advised against : Product is not intended, labelled or packaged for consumer use.

C. Supplier's or Importer's

information

Email Address

: PPG SSC (680-090)

19, Yeocheon-ro 217beon-gil, Nam-gu,

Ulsan, Korea

Tel: +82-52-210-8222 Korea.MSDS@PPG.COM

Emergency telephone

number:

: +82-52-210-8222

Section 2. Hazards identification

A. Hazard classification : SKIN IRRITATION - Category 2

EYE IRRITATION - Category 2A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1

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

: H315 - Causes skin irritation. **Hazard statements**

> H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

Korea (GHS) Page: 1/12 Product code 00399812 Date of issue 8/10/2023 (month/day/year) Version 1

Product name AQUAPON WB EP EPOXY CLEAR-B

Section 2. Hazards identification

Prevention : P280 - Wear eye or face protection.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapor.

P264 - Wash thoroughly after handling.

: P391 - Collect spillage. Response

P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

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

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

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.

: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. **Storage**

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

national and international regulations.

C. Other hazards which do

not result in classification : None known.

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number : Not applicable.

Chemical name	Common name	Identifiers	%
Neodecanoic acid, 2-oxiranylmethyl ester, reaction products with bisphenol Abisphenol A diglycidyl ether polymer, glycidyl o-tolyl ether, 2-methyl-1,5-pentanediamine, oxidized polyethylene glycol and triethylenetetramine neodecanoic acid	· · · · · · · · · · · · · · · · · · ·		50 - <60 1 - <5

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 : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and B. Skin contact water or use recognized skin cleanser. Do NOT use solvents or thinners.

C. 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.

Korea (GHS) Page: 2/12 Product code 00399812 Date of issue 8/10/2023 (month/day/year) Version 1

Product name AQUAPON WB EP EPOXY CLEAR-B

Section 4. First aid measures

D. Ingestion : If swallowed, seek medical advice immediately and show this container or label.

Keep person warm and at rest. Do NOT induce vomiting.

E. Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.

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.

See toxicological information (Section 11)

Section 5. Fire-fighting 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 very 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 oxides nitrogen oxides

C. Special equipment for fire-fighting

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

Fire-fighting procedures

: 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

A. 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

B. 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. Collect spillage.

C. Methods and materials for containment and cleaning up

Korea (GHS) Page: 3/12

Date of issue 8/10/2023 (month/day/year) Version 1

Product name AQUAPON WB EP EPOXY CLEAR-B

Section 6. Accidental release measures

Small spill

Product code 00399812

: 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.

Large spill

: 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). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled 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
- : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.
- B. Conditions for safe storage, including any incompatibilities
- : Store between the following temperatures: 5 to 35°C (41 to 95°F). 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. Store locked up. 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 unlabeled 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. Occupational exposure limits

None.

Recommended monitoring procedures

- : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- B. Appropriate engineering controls
- : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
- C. Personal protective equipment

Korea (GHS) Page: 4/12

Product code 00399812 Date of issue 8/10/2023 (month/day/year) **Version 1**

Product name AQUAPON WB EP EPOXY CLEAR-B

Section 8. Exposure controls/personal protection

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the

> hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is

necessary.

Eye protection : Chemical splash goggles.

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates

this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately

: For prolonged or repeated handling, use the following type of gloves: **Gloves**

Recommended: Viton®

Body protection : Personal protective equipment for the body should be selected based on the task

being performed and the risks involved and should be approved by a specialist

before handling this product.

: 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. Wash contaminated clothing before reusing. Ensure that eyewash stations and

safety showers are close to the workstation location.

: Greatest known range: Lower: 1.4% Upper: 12.4% (neodecanoic acid)

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

A. Appearance

Physical state : Liquid. : Colorless. Color B. Odor : Characteristic. : Not available. C. Odor threshold D. pH : Not available. E. Melting/freezing point : Not available.

: >37.78°C (>100°F) F. Boiling point/boiling

range

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

: Not available. H. Evaporation rate Flammability (solid, gas) : Not available.

J. Lower and upper

explosive (flammable)

limits

K. Vapor pressure

Korea (GHS) Page: 5/12 Product code 00399812

Date of issue 8/10/2023 (month/day/year)

Version 1

Product name AQUAPON WB EP EPOXY CLEAR-B

Section 9. Physical and chemical properties

	Vapor Pressure at 20°C			Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	17.5	2.3				

L. Solubility(ies)

Media Result

cold water Partially soluble

: Not available. Solubility in water Vapor density Not available. **Relative density** 1.08

Partition coefficient: n-

octanol/water

Auto-ignition temperature

: Not applicable.

Ingredient name	°C	°F	Method
neodecanoic acid	375	707	ASTM E 659

Decomposition temperature

: Not available.

Viscosity Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

Flow time (ISO 2431) : Not available. Molecular weight : Not applicable. S.

Section 10. Stability and reactivity

A. Chemical stability

: The product is stable.

Possibility of hazardous reactions

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

B. Conditions to avoid

: When exposed to high temperatures may produce hazardous decomposition

products.

C. Incompatible materials

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

oxidizing agents, strong alkalis, strong acids.

D. Hazardous

decomposition products

: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides

Section 11. Toxicological information

A. Information on the likely routes of exposure

: Not available.

Potential acute health effects

Inhalation : May cause respiratory irritation.

: No known significant effects or critical hazards. Ingestion

Skin contact : Causes skin irritation.

> Korea (GHS) Page: 6/12

Product code 00399812 Date of issue 8/10/2023 (month/day/year) Version 1

Product name AQUAPON WB EP EPOXY CLEAR-B

Section 11. Toxicological information

Eye contact : Causes serious eye irritation.

Over-exposure signs/symptoms

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

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
neodecanoic acid	LD50 Dermal LD50 Oral	Rabbit Rat	>3160 mg/kg 2000 mg/kg	-

Conclusion/Summary: There are no data available on the mixture itself.

Irritation/Corrosion

Conclusion/Summary

Skin : There are no data available on the mixture itself.
Eyes : There are no data available on the mixture itself.
Respiratory : There are no data available on the mixture itself.

Sensitization

Conclusion/Summary

Skin : There are no data available on the mixture itself.Respiratory : There are no data available on the mixture itself.

Mutagenicity

Conclusion/Summary: There are no data available on the mixture itself.

Carcinogenicity

Conclusion/Summary: There are no data available on the mixture itself.

Reproductive toxicity

Conclusion/Summary: There are no data available on the mixture itself.

Teratogenicity

Conclusion/Summary: There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Korea (GHS) Page: 7/12

Product code 00399812	Date of issue 8/10/2023 (month/day/year)	Version 1
-----------------------	--	-----------

Product name AQUAPON WB EP EPOXY CLEAR-B

Section 11. Toxicological information

Name	Classification	Route of exposure	Target organs
Neodecanoic acid, 2-oxiranylmethyl ester, reaction products with bisphenol A-bisphenol A diglycidyl ether polymer, glycidyl o-tolyl ether, 2-methyl-1,5-pentanediamine, oxidized polyethylene glycol and triethylenetetramine	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs	
neodecanoic acid	Category 2	-	-	

Aspiration hazard

Not available.

Potential chronic health effects

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

Additional information

None known.

Chemical name	Identifiers	GHS Classification
Neodecanoic acid, 2-oxiranylmethyl ester, reaction products with bisphenol Abisphenol A diglycidyl ether polymer, glycidyl o-tolyl ether, 2-methyl-1,5-pentanediamine, oxidized polyethylene glycol and triethylenetetramine	CAS: 219687-87-3	SKIN IRRITATION - Category 2
neodecanoic acid	CAS: 26896-20-8	EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Korea (GHS) Page: 8/12

Date of issue 8/10/2023 (month/day/year) Version 1

Product name AQUAPON WB EP EPOXY CLEAR-B

Section 12. Ecological information

A. Ecotoxicity

Not available.

Product code 00399812

B. Persistence and degradability

Not available.

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
neodecanoic acid	2.1	-	Low

D. Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

E. Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

A. Disposal methods

: 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

B. Disposal precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	IATA
A. UN number	UN3082	UN3082	UN3082
B. UN proper shipping name	ENVIRONMENTALLY	ENVIRONMENTALLY	ENVIRONMENTALLY
	HAZARDOUS SUBSTANCE,	HAZARDOUS SUBSTANCE,	HAZARDOUS SUBSTANCE,
	LIQUID, N.O.S.	LIQUID, N.O.S.	LIQUID, N.O.S.
	(Neodecanoic acid,	(Neodecanoic acid,	(Neodecanoic acid,
	2-oxiranylmethyl ester,	2-oxiranylmethyl ester,	2-oxiranylmethyl ester,
	reaction products with	reaction products with	reaction products with
	bisphenol A-bisphenol A	bisphenol A-bisphenol A	bisphenol A-bisphenol A
	diglycidyl ether polymer,	diglycidyl ether polymer,	diglycidyl ether polymer,
	glycidyl o-tolyl ether, 2-methyl-	glycidyl o-tolyl ether, 2-methyl-	glycidyl o-tolyl ether, 2-methyl-
	1,5-pentanediamine, oxidized	1,5-pentanediamine, oxidized	1,5-pentanediamine, oxidized
	polyethylene glycol and	polyethylene glycol and	polyethylene glycol and
	triethylenetetramine)	triethylenetetramine)	triethylenetetramine)

Korea (GHS) Page: 9/12

Product code 00399812		Date of issue 8/10/2023 (month/o	day/year) Version 1				
Section 14. Transport information							
C. Transport hazard class(es)	9	9	9				
D. Packing group	III	III	III				
Environmental hazards	Yes.	Yes.	Yes.				
E. Marine pollutant substances	Not applicable.	(Neodecanoic acid, 2-oxiranylmethyl ester, reaction products with bisphenol A-bisphenol A diglycidyl ether polymer, glycidyl o-tolyl ether, 2-methyl- 1,5-pentanediamine, oxidized polyethylene glycol and triethylenetetramine)	Not applicable.				

Additional information

UN

: 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.

IMDG

: 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.

IATA

: 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.

F. Special precaution which a user to be aware of or needs to comply with in connection with transport or transportation

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 bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

A. Regulation according to ISHA

ISHA article 117 (Harmful substances prohibited from manufacture) : None of the components are listed.

ISHA article 118 (Harmful substances

: None of the components are listed.

requiring permission)

Article 2 of Youth Protection Act on Substances Hazardous

: It is not allowed to sell to persons under the age of 19.

to Youth

Exposure Limits of Chemical Substances and Physical Factors

None of the components have an OEL.

Korea (GHS) Page: 10/12

Product code 00399812 Date of issue 8/10/2023 (month/day/year) Version 1

Product name AQUAPON WB EP EPOXY CLEAR-B

Section 15. Regulatory information

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)

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.

ISHA Enforcement Regs: None of the components are listed.

: None of the components are listed.

B. Regulation according to Chemicals Control Act

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

Article 18 Prohibited (K-Reach Article 27)

Article 19 Subject to

authorization (K-Reach

Article 25)

: None of the components are listed.

Article 20 Restricted (K-Reach Article 27)

Article 20 Toxic

Article 20)

: None of the components are listed.

: Not applicable **Chemicals (K-Reach**

Korea inventory Article 39 (Accident Precaution Chemicals)

: None of the components are listed.

: All components are listed or exempted.

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

Item: 5. Class 3 petroleums - Water soluble liquid

Threshold: 4000 L Danger category: III

Signal word: Contact with sources of ignition prohibited

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

Safety, health and environmental regulations specific for

the product

: No known specific national and/or regional regulations applicable to this product (including its ingredients).

Korea (GHS) Page: 11/12 Product code 00399812 Date of issue 8/10/2023 (month/day/year) Version 1

Product name AQUAPON WB EP EPOXY CLEAR-B

Section 16. Other information

A. References : Korean Ministry of Environment; Chemical Control Act

Korean Ministry of Labor; Industrial Safety and Health Act

NIER Notice

Registry of Toxic Effects of Chemical Substances (RTECS)

U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information

Retrieval) ECOTOX Database System.

B. Date of issue/Date of

revision

: 8/10/2023

C. Version : 1
Prepared by : EHS

D. Other

▼ Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

Korea (GHS) Page: 12/12