SAFETY DATA SHEET

Date of issue : 26 September 2024

Version : 5



Section 1. Identification

Product code : 40650-C7001/16L

Product name : SIGMAGUARD CSF 650 BASE OFFWHITE

Product type : Liquid.

Recommended use and restrictions

Use of the substance/ : Coating.

mixture

Uses advised against : Not applicable.

Supplier's details : PPG INDUSTRIES NEW ZEALAND LTD

5 MONAHAN ROAD, MT WELLINGTON,

AUCKLAND www.ppgnz.co.nz

Telephone Numbers: 09 573 1620, 0800 659378 021 940 920 (24 Hours)

Emergency telephone number (with hours of

operation)

: New Zealand 0800 000 096 (24 hours) / Australia 1800 883 254 (24 hours)

For international shipping emergencies: 1-412-391-1618

e-mail address of person responsible for this SDS

: ehsnz@ppg.com

Section 2. Hazards identification

HSNO Classification : SKIN IRRITATION - Category 2

EYE IRRITATION - Category 2 SKIN SENSITISATION - Category 1

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

Symbol







GHS label elements

Signal word : Warning

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause damage to organs through prolonged or repeated exposure.

Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention : Wear protective gloves. Wear eye or face protection. Avoid release to the

environment. Do not breathe vapour. Wash thoroughly after handling.

New Zealand Page: 1/11

Product name SIGMAGUARD CSF 650 BASE OFFWHITE

Section 2. Hazards identification

Response : Collect spillage. Get medical advice/attention if you feel unwell. Take off

contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or

attention.

Storage : Not applicable.

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

and international regulations.

Other hazards which do not : None known. result in classification

This material is classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017 and has been classified according to the Hazardous Substances (Classifications) Notice 2017.

This material is classified as DANGEROUS GOODS according to criteria in New Zealand Land Transport Rule: Dangerous Goods 2005.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

CAS number/other identifiers

Product code : 40650-C7001/16L

Hazardous ingredients	%	CAS number
reaction product: bisphenol-A-(epichlorohydrin); epoxy resin 1,6-bis(2,3-epoxypropoxy)hexane benzyl alcohol	1 - <10	25068-38-6 16096-31-4 100-51-6

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 or have an OEL and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessary first aid measures

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 to fresh air. Keep person warm and at rest. If not breathing, if breathing is Inhalation

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognised skin cleanser. Do NOT use solvents or thinners.

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

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

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

: No known significant effects or critical hazards. Inhalation

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

New Zealand Page: 2/11

Product name SIGMAGUARD CSF 650 BASE OFFWHITE

Section 4. First aid measures

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

: Adverse symptoms may include the following: **Eyes**

pain or irritation

watering redness

Inhalation : No specific data.

Skin : Adverse symptoms may include the following:

> irritation redness

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Specific treatments : Not available.

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Protection of first-aiders : 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

2024

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable : Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None known.

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 oxides

halogenated compounds metal oxide/oxides

fighters

Special precautions for fire : 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.

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.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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.

> **New Zealand** Page: 3/11

Product name SIGMAGUARD CSF 650 BASE OFFWHITE

Section 6. Accidental release measures

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.

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

Precautions for safe handling

: Fut 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 breathe vapour or mist. Do not ingest. 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.

Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 0 to 35°C (32 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. 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

Control parameters

Ingredient name	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.

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour 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.

Individual protection measures

New Zealand Page: 4/11

Product code 40650-C7001/16L

Date of issue 26 September

Version 5

2024

Product name SIGMAGUARD CSF 650 BASE OFFWHITE

Section 8. Exposure controls/personal protection

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before 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.

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.

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 estimated.

Gloves : butyl rubber

Eye protection : Chemical splash goggles.

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.

Section 9. Physical and chemical properties

<u>Appearance</u>

Physical state : Liquid.

Colour : White.

Odour : Aromatic.

Odour threshold : Not available.

pH : Not applicable.

Melting point : Not available.

Boiling point : >37.78°C (>100°F)

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

Flammability (solid, gas) : Not available.

Lower and upper explosive : Not available.

(flammable) limits

(Hallillable) Illillis

Vapour pressure : Not available.

Relative density : 1.41

Solubility(ies) : Media Result

old water Not soluble

Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition temperature: Not available.

New Zealand Page: 5/11

2024

Product name SIGMAGUARD CSF 650 BASE OFFWHITE

Section 9. Physical and chemical properties

Decomposition temperature : Not available.

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

Section 10. Stability and reactivity

: Stable under recommended storage and handling conditions (see Section 7). **Stability**

Possibility of hazardous

reactions

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

Conditions to avoid : No specific data.

Incompatible materials : Reactive or incompatible with the following materials:

> oxidising materials strong acids strong alkalis

Hazardous decomposition

products

: Depending on conditions, decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides

Hazardous polymerisation : Under normal conditions of storage and use, hazardous polymerisation will not

occur.

Section 11. Toxicological information

Information on likely routes of exposure

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

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

Eye contact : Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

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

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
reaction product: bisphenol- A-(epichlorohydrin); epoxy resin	LD50 Dermal	Rabbit	>2 g/kg	-
benzyl alcohol	LD50 Oral LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat	>2 g/kg >4178 mg/m³ 2000 mg/kg 1.23 g/kg	- 4 hours -

Conclusion/Summary

Irritation/Corrosion

: There are no data available on the mixture itself.

New Zealand Page: 6/11

Product name SIGMAGUARD CSF 650 BASE OFFWHITE

Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
reaction product: bisphenol-A-(epichlorohydrin); epoxy	Eyes - Mild irritant	Rabbit	-	100 mg	-
resin					
	Eyes - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 Ul	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-

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.

Sensitisation

•	Route of exposure	Species	Result
reaction product: bisphenol- A-(epichlorohydrin); epoxy resin	skin	Mouse	Sensitising

Conclusion/Summary

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

Potential chronic health effects

General : May cause damage to organs through prolonged or repeated exposure. Once

: No known significant effects or critical hazards.

sensitized, a severe allergic reaction may occur when subsequently exposed to very

low levels.

Skin contact : 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
Chronic toxicity

Not available.

Carcinogenicity

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

Mutagenicity

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

Teratogenicity

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

Reproductive toxicity

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

New Zealand Page: 7/11

Product code 40650-C7001/16L

Date of issue 26 September 2024

Version 5

Product name SIGMAGUARD CSF 650 BASE OFFWHITE

Section 11. Toxicological information

Specific target organ toxicity

Name		Route of exposure	Target organs
reaction product: bisphenol-A-(epichlorohydrin); epoxy resin	Category 2	-	-

Aspiration hazard

Not available.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Ø ral	13466.02 mg/kg
Dermal	21895.97 mg/kg
Inhalation (dusts and mists)	8.23 mg/l

Other information

Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death.

Section 12. Ecological information

Ecotoxicity

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

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
reaction product: bisphenol- A-(epichlorohydrin); epoxy resin	Chronic NOEC 0.3 mg/l	Daphnia	21 days

Persistence/degradability

Product/ingredient name	Test	Result		Dose	Inoculum
reaction product: bisphenol- A-(epichlorohydrin); epoxy resin	OECD 301F	5 % - 28 days		-	-
Product/ingredient name	Aquatic half-life		Photolysis	S	Biodegradability

Product/ingredient name	Aquatic nan-ine	Photolysis	Biodegradability
reaction product: bisphenol-	-	-	Not readily
A-(epichlorohydrin); epoxy			
resin			
benzyl alcohol	-	-	Readily

Bioaccumulative potential

New Zealand Page: 8/11

Product code 40650-C7001/16L

Date of issue 26 September 2024

Version 5

Product name SIGMAGUARD CSF 650 BASE OFFWHITE

Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
A-(epichlorohydrin); epoxy	2.64 to 3.78	31	Low
resin 1,6-bis(2,3-epoxypropoxy) hexane	0.822	-	Low
benzyl alcohol	0.87	-	Low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Do not allow to enter drains or watercourses.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimised 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. 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

Not suitable:

: Do not allow to enter drains or watercourses.

The classification of the product may meet the criteria for a hazardous waste. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport information

	NZ	IMDG	IATA
UN number	UN3082	UN3082	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. reaction product: bisphenol-A- (epichlorohydrin); epoxy resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Freaction product: bisphenol-A- (epichlorohydrin); epoxy resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A- (epichlorohydrin); epoxy resin)
Transport hazard class(es)	9	9	9

New Zealand

Page: 9/11

Product name SIGMAGUARD CSF 650 BASE OFFWHITE

14. Transport information

Packing group	III	III	III
Environmental hazards	Yes.	Yes.	Yes.
Marine pollutant substances	reaction product: bisphenol-A- (epichlorohydrin); epoxy resin)	reaction product: bisphenol-A- (epichlorohydrin); epoxy resin)	Not applicable.

Additional information

: None identified. NZ

Hazchem code : •3Z

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.

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, **IATA**

provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

Special precautions for user : 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

New Zealand Inventory of

Chemicals (NZIoC)

: All components are listed or exempted.

HSNO Approval Number

: HSR002670 Subsidiary Hazard

Emergency Management

Regulations

: Level 1: Not applicable.

Level 2: MSDS required when any amount is present in a workplace.

Level 3: Emergency Response Plans and Secondary Containment required when

1000L is stored.

Approved Handler : Not applicable.

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.

New Zealand Page: 10/11

Product name SIGMAGUARD CSF 650 BASE OFFWHITE

Section 15. Regulatory information

Section 16. Other information

Date of issue : 26 September 2024

Date of previous issue : 11/8/2021

▼ Indicates information that has changed from previously issued version.

Key to abbreviations : STEL = Short Term Exposure Limit

TWA = Time-Weighted Average WES = Work Exposure Standard

References : Not available.

Organisation that prepared : EHS

the SDS

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.

New Zealand Page: 11/11