# SAFETY DATA SHEET

Date of issue : 8 November 2021

Version : 4



### **Section 1. Identification**

: 40650-C7001/16L **Product code** 

: SIGMAGUARD CSF 650 BASE OFFWHITE **Product name** 

**Product type** : Liquid. Recommended use and restrictions Use of the substance/

mixture

: Coating.

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** : FYE IRRITATION - Category 2

SKIN SENSITISATION - Category 1

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 2 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. **Hazard statements** 

Causes serious eye irritation. May cause damage to organs.

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.

**New Zealand** Page: 1/11

#### Product name SIGMAGUARD CSF 650 BASE OFFWHITE

### Section 2. Hazards identification

Response : Collect spillage. IF exposed or concerned: Call a POISON CENTER or doctor.

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.

: Not applicable. Storage

**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

: Mixture Substance/mixture

CAS number/other identifiers

Product code : 40650-C7001/16L

Hazardous ingredients	%	CAS number
reaction product: bisphenol-A-(epichlorhydrin); 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.

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.

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

: May cause damage to organs following a single exposure in contact with skin. May Skin contact

cause an allergic skin reaction.

**New Zealand** Page: 2/11

#### Product name SIGMAGUARD CSF 650 BASE OFFWHITE

### Section 4. First aid measures

Ingestion : May cause damage to organs following a single exposure if swallowed.

Over-exposure signs/symptoms

Eyes : Adverse symptoms may include the following:

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.

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

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

gloves.

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

Special precautions for firefighters

: 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

: Fspecialised 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

Date of issue 8 November 2021 Version 4

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

: Put 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. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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. 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 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.	

procedures

**Recommended monitoring**: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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.

> **New Zealand** Page: 4/11

Date of issue 8 November 2021 Version 4

Product name SIGMAGUARD CSF 650 BASE OFFWHITE

## Section 8. Exposure controls/personal protection

**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**

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

#### **Appearance**

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)
Lower and upper explosive

(flammable) limits

Not available.Not available.

Vapour pressure : Not available.

Relative density : 1.41

**Solubility** : Insoluble in the following materials: cold water.

New Zealand Page: 5/11

Product name SIGMAGUARD CSF 650 BASE OFFWHITE

### Section 9. Physical and chemical properties

Partition coefficient: n-

octanol/water

: Not applicable.

**Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available.

**Viscosity** : Kinematic (40°C (104°F)): >21 mm<sup>2</sup>/s (>21 cSt)

## Section 10. Stability and reactivity

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

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** 

**Hazardous polymerisation** 

products

: Depending on conditions, decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides : Under normal conditions of storage and use, hazardous polymerisation will not

occur.

# **Section 11. Toxicological information**

#### Information on likely routes of exposure

Inhalation : No known significant effects or critical hazards.

: May cause damage to organs following a single exposure if swallowed. Ingestion

Skin contact : May cause damage to organs following a single exposure in contact with skin. May

cause an allergic skin reaction.

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** 

**New Zealand** Page: 6/11

#### **Product name SIGMAGUARD CSF 650 BASE OFFWHITE**

## **Section 11. Toxicological information**

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

### Conclusion/Summary

: There are no data available on the mixture itself.

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	Skin - Moderate irritant	Rabbit	-	-	-
103111	Eyes - Moderate irritant	Rabbit	_	-	_
	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 UI	-
	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-(epichlorhydrin); 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

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 : No known significant effects or critical hazards.

**Chronic toxicity** 

Not available.

New Zealand Page: 7/11

Date of issue 8 November 2021 Version 4

#### Product name SIGMAGUARD CSF 650 BASE OFFWHITE

## Section 11. Toxicological information

**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.

Specific target organ toxicity

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

#### **Aspiration hazard**

Not available.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
Oral	13466.02 mg/kg
Dermal	21895.97 mg/kg

#### 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-(epichlorhydrin); epoxy resin	Chronic NOEC 0.3 mg/l	Daphnia	21 days

#### Persistence/degradability

Product/ingredient name	Test	Result		Dose	Inoculum
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	OECD 301F	5 % - 28 days		-	-
Product/ingredient name	Aquatic half-life		Photolysis	S	Biodegradability
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	-		-		Not readily
benzyl alcohol	-		_		Readily

**New Zealand** 

Page: 8/11

Date of issue 8 November 2021 Version 4

Product name SIGMAGUARD CSF 650 BASE OFFWHITE

## Section 12. Ecological information

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	2.64 to 3.78	31	low
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.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(reaction product: bisphenol-A- (epichlorhydrin); epoxy resin)	(reaction product: bisphenol-A- (epichlorhydrin); epoxy resin)	(reaction product: bisphenol-A- (epichlorhydrin); epoxy resin)
Transport hazard class(es)	9	9	9
	AND		

**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- (epichlorhydrin); epoxy resin)	(reaction product: bisphenol-A- (epichlorhydrin); epoxy resin)	Not applicable.

#### Additional information

NZ : None identified.

**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 : 8 November 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