Safety Data Sheet

PLAZA PLUS

Revision: 2021-07-13 **Version:** 02.0

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier
Product name: PLAZA PLUS

1.2 Recommended use and restrictions on use
Identified uses:
Floor sealer/finish
Restrictions of use:
Uses other than those identified are not recommended

1.3 Details of the supplier
Diversey Australia Pty. Limited
29 Chifley St, Smithfield, NSW, 2164, Australia
Telephone: 1800 647 779 (toll free)
Fax: (02) 9725 5767
Email: aucustserv@diversey.com
Website: www.diversey.com/

1.4 Emergency telephone number
Seek medical advice (show the label or safety data sheet where possible)
Call 1800 033 111 (24hrs)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Serious eye irritation, Category 2

2.2 Label elements

Signal word: Warning

Hazard statements:
H319 - Causes serious eye irritation.

Prevention statement(s):
P264 - Wash face, hands and any exposed skin thoroughly after handling.

Response statement(s):
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.

Disposal statement(s):
P501 - Dispose of unused content as chemical waste.

2.3 Other hazards
No other hazards known.

SECTION 3: Composition/information on ingredients

3.1 Substances / Mixtures

Ingredient(s)	CAS number	EC number	Weight percent
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane	5660-53-7		1-3
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt	89678-90-0		1-3

Non-hazardous ingredients are the remainder and add up to 100%.

[4] Polymer.
Workplace exposure limit(s), if available, are listed in subsection 8.1.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Get medical attention or advice if you feel unwell.

Skin contact: Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.

Eye contact: Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.

Ingestion: Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.

Self-protection of first aider: Consider personal protective equipment as indicated in subsection 8.2.

First aid facilities: Eyewash facilities should be considered in a workplace where necessary.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: No known effects or symptoms in normal use.

Skin contact: No known effects or symptoms in normal use.

Eye contact: Causes severe irritation.

Ingestion: No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

Poison Information Center: Call 13 11 26 (Australia Wide).

SECTION 5: Firefighting measures

5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

5.4 Hazchem code

None allocated

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures required.

6.2 Environmental precautions

Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up

Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire and explosions:

No special precautions required.

Measures required to protect the environment:
For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:
Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless adviced by Diversey. Wash hands before breaks and at the end of workday. Avoid contact with eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities
Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging.
For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)
No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Workplace exposure limits

Air limit values, if available:

Biological limit values, if available:

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet.
If available, please refer to the product information sheet for application and handling instructions.
Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

Appropriate engineering controls:	No special requirements under normal use conditions.
Appropriate organisational controls:	Avoid direct contact and/or splashes where possible. Train personnel.
Personal protective equipment	
Eye / face protection:	Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 166).
Hand protection:	No special requirements under normal use conditions.
Body protection:	No special requirements under normal use conditions.
Respiratory protection:	No special requirements under normal use conditions.
Environmental exposure controls:	No special requirements under normal use conditions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

	Method / remark
Physical State: Liquid	
Colour: Milky , White	
Odour: Product specific	
Odour threshold: Not applicable	
pH: ≈ 9 (neat)	ISO 4316
Melting point/freezing point (°C): Not determined	Not relevant to classification of this product
Initial boiling point and boiling range (°C): Not determined	
Flammability (liquid): Not flammable.	
Flash point (°C): > 93 °C	open cup
Sustained combustion: Not applicable.	
(UN Manual of Tests and Criteria, section 32, L.2)	
Evaporation rate: Not determined	Not relevant to classification of this product
Flammability (solid, gas): Not applicable to liquids	
Lower and upper explosion limit/flammability limit (%): Not determined	
Vapour pressure: Not determined	
Relative vapour density No data available	Not relevant to classification of this product
Relative density: ≈ 1.03 (20 °C)	OECD 109 (EU A.3)
Solubility in / Miscibility with Water: Fully miscible	
Partition coefficient: n-octanol/water No information available.	

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Autoignition temperature: Not determined
Decomposition temperature: Not applicable.
Viscosity: ≈ 6.5 mPa.s (20 °C) QATM-V-013/Rev. 002 Viscosity by Rotational Viscometer

Explosive properties: Not explosive.
Oxidising properties: Not oxidising.

9.2 Other information
Surface tension (N/m): Not determined
Corrosion to metals: Not corrosive

SECTION 10: Stability and reactivity

10.1 Reactivity
No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability
Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions
No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid
None known under normal storage and use conditions.

10.5 Incompatible materials
None known under normal use conditions.

10.6 Hazardous decomposition products
None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture data:.

Relevant calculated ATE(s):
ATE - Oral (mg/kg): >2000

Substance data, where relevant and available, are listed below:.

Acute toxicity
Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane		No data available			
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt		No data available			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane		No data available			
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane		No data available			
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene,		No data			

ammonium salt		available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane	No data available			
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane	No data available			
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane	No data available			
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane	No data available			
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane	No data available			
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane	No data available		No data available	
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane	No data available
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane			No data available				
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt			No data available				

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane		No data available				
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane		No data available				
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane		No data available				
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt		No data available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane			No data available					
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane	No data available
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane	No data available
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt	No data available

Aspiration hazard
Substances with an aspiration hazard (H304), if any, are listed in section 3.

Potential adverse health effects and symptoms
Effects and symptoms related to the product, if any, are listed in subsection 4.2.

SECTION 12: Ecological information

12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane		No data available			
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane		No data available			
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value	Species	Method	Exposure

		(mg/l)			time (h)
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane		No data available			
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane		No data available			
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane		No data available			
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane		No data available				
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane		No data available				
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT_{50}	Method	Evaluation
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane	Activated sludge, aerobe			OECD 301D	Not readily biodegradable.
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt					Not readily biodegradable.

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane	No data available			
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane	No data available				
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
4-Hydroxymethyl-2-isobutyl-2-methyl-1,3-dioxolane	No data available				
2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, ammonium salt	No data available				

12.5 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products: The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

Empty packaging Recommendation: Dispose of observing national or local regulations.

Suitable cleaning agents: Water, if necessary with cleaning agent.

SECTION 14: Transport information

ADG, IMO/IMDG, ICAO/IATA

14.1 UN number: Non-dangerous goods
14.2 UN proper shipping name: Non-dangerous goods
14.3 Transport hazard class(es): Non-dangerous goods
14.4 Packing group: Non-dangerous goods
14.5 Environmental hazards: Non-dangerous goods
14.6 Special precautions for user: Non-dangerous goods
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Non-dangerous goods

Other relevant information:
Hazchem code: None allocated

SECTION 15: Regulatory information

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

National regulations Globally Harmonised System of Classification and Labelling of Chemicals (GHS) as published by Safework Australia.

Poison schedule A poison schedule number has not been allocated to this product using the criteria in the Standard

	for the Uniform Scheduling of Medicines and Poisons (SUSMP).
Classification	Globally Harmonised System of Classification and Labelling of Chemicals (GHS) as published by Safework Australia.
Inventory listing(s)	Australian Inventory of Industrial Chemicals: All components are listed on the inventory, or are exempt.

SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

SDS code: MS31001079 **Version:** 02.0 **Revision:** 2021-07-13

Additional information:
Respirators: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

Work practices - solvents: Organic solvents may present both a health and flammability hazard. It is recommended that engineering controls should be adopted to reduce exposure where practicable (for example, if using indoors, ensure explosion proof extraction ventilation is available). Flammable or combustible liquids with explosive limits have the potential for ignition from static discharge. Refer to AS 1020 (The control of undesirable static electricity) and AS 1940 (The storage and handling of flammable and combustible liquids) for control procedures.

Personal protective equipment guidelines: The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Health effects from exposure: It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Safety Data Sheet which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations and acronyms:
- ATE - Acute Toxicity Estimate
- AUH - Non GHS hazard statement
- DNEL - Derived No Effect Limit
- EC No. - European Community Number
- EC50 - effective concentration, 50%
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organization for Economic Cooperation and Development
- PNEC - Predicted No Effect Concentration
- STOT-RE - Specific target organ toxicity (repeated exposure)
- STOT-SE - Specific target organ toxicity (single exposure)

End of Safety Data Sheet