

## HELIOS REFINISH 2K ADDITIVE EXTRA SLOW

Version	Revision Date:	SDS Number:	Date of last issue:
1.1	07.02.2025	MAT000402261 AU/EN	16.11.2023 16.11.2023

**SECTION 1: IDENTIFICATION**

Product name : HELIOS REFINISH 2K ADDITIVE EXTRA SLOW

Product code : 40226101

**Manufacturer or supplier's details****Details of the supplier of the safety data sheet**Company : Helios Coatings Australia Pty Ltd  
50 Clapham Road  
SEFTON NSW 2162  
AustraliaTelephone : 61 2 9645 3188  
E-mail address Responsible/issuing person : 61 2 9645 3188  
info@helioscoatings.com.au**Emergency telephone number**

112 (mobile) Ambulance 000, Poisons Information Centre: 131 126

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Flammable liquids : Category 4

Acute toxicity (Oral) : Category 4

Acute toxicity (Dermal) : Category 4

**GHS label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : H227 Combustible liquid.  
H302 + H312 Harmful if swallowed or in contact with skin.Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

## HELIOS REFINISH 2K ADDITIVE EXTRA SLOW

Version	Revision Date:	SDS Number:	Date of last issue: 16.11.2023
1.1	07.02.2025	MAT000402261 AU/EN	Date of first issue: 16.11.2023

P302 + P352 + P312 IF ON SKIN: Wash with plenty of water.  
Call a POISON CENTER/ doctor if you feel unwell.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P403 Store in a well-ventilated place.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards which do not result in classification**

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
2-butoxyethyl acetate	112-07-2	>= 60 -<= 100

### SECTION 4. FIRST AID MEASURES

General advice	:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	:	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	:	None known.
Notes to physician	:	Treat symptomatically.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Carbon dioxide (CO <sub>2</sub> )
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire-	:	Do not allow run-off from fire fighting to enter drains or water

## HELIOS REFINISH 2K ADDITIVE EXTRA SLOW

Version	Revision Date:	SDS Number:	Date of last issue: 16.11.2023
1.1	07.02.2025	MAT000402261 AU/EN	Date of first issue: 16.11.2023

fighting courses.

Hazardous combustion products : No hazardous combustion products are known

Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.

Hygiene measures : Wash hands before breaks and at the end of workday.

Conditions for safe storage : No smoking.  
Keep in a well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

## HELIOS REFINISH 2K ADDITIVE EXTRA SLOW

Version 1.1      Revision Date: 07.02.2025      SDS Number: MAT000402261 AU/EN      Date of last issue: 16.11.2023      Date of first issue: 16.11.2023

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-butoxyethyl acetate	112-07-2	STEL	50 ppm 333 mg/m <sup>3</sup>	AU OEL
Further information: Skin absorption				
		TWA	20 ppm 133 mg/m <sup>3</sup>	AU OEL
Further information: Skin absorption				
		TWA	20 ppm	ACGIH

## Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Organic vapour type  
Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Eye protection : Equipment should conform to EN 166  
Eye wash bottle with pure water  
Tightly fitting safety goggles

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : in accordance with the product description

Odour : solvent-like

Odour Threshold : No data available

pH : Not applicable

Melting point/freezing point : -64.0 °C  
(calculation method (principal components, lowest value))

## HELIOS REFINISH 2K ADDITIVE EXTRA SLOW

Version	Revision Date:	SDS Number:	Date of last issue: 16.11.2023
1.1	07.02.2025	MAT000402261 AU/EN	Date of first issue: 16.11.2023

---

Boiling point/boiling range	:	184 - 195 °C (calculation method (principal components, lowest value))
Flash point	:	78 °C (calculation method (principal components, lowest value))
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Static-accumulating flammable liquid., Combustible Solids
Upper explosion limit / Upper flammability limit	:	8.4 %(V)
Lower explosion limit / Lower flammability limit	:	1.7 %(V)
Vapour pressure	:	0.31 hPa (20 °C)
Relative vapour density	:	5.5 (Air = 1.0)
Relative density	:	0.94
Density	:	0.940 g/cm <sup>3</sup>
Solubility(ies)		
Water solubility	:	immiscible, partly soluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	log Pow: 1.51
Auto-ignition temperature	:	280 °C
Decomposition temperature	:	No decomposition if used as directed. Hazardous decomposition products formed under fire conditions.
Viscosity		
Viscosity, kinematic	:	< 20.5 mm <sup>2</sup> /s ( 40 °C)
Explosive properties	:	Not applicable
Oxidizing properties	:	Sustains combustion

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.

## HELIOS REFINISH 2K ADDITIVE EXTRA SLOW

Version	Revision Date:	SDS Number:	Date of last issue: 16.11.2023
1.1	07.02.2025	MAT000402261 AU/EN	Date of first issue: 16.11.2023

---

Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Incompatible with strong acids and bases.
Hazardous decomposition products	:	No hazardous decomposition products are known.

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## SECTION 11. TOXICOLOGICAL INFORMATION

**Acute toxicity****Components:****2-butoxyethyl acetate:**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

LD50 Oral (Rat):  $\geq 2,400$  mg/kg

Acute inhalation toxicity : LC50 (Rat):  $\geq 50$  mg/l  
Exposure time: 2 h  
Test atmosphere: vapour

Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after single contact with skin.

LD50 (Rabbit):  $\geq 1,500$  mg/kg

**Chronic toxicity****Further information****Product:**

Remarks : No data available

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## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity****Components:****2-butoxyethyl acetate:**

Toxicity to fish : LC50 (Fish):  $\geq 31$  mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)):  $\geq 142.5$  mg/l  
Exposure time: 48 h

Toxicity to microorganisms : EC50 (Bacteria):  $\geq 2,800$  mg/l

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**Persistence and degradability****Components:****2-butoxyethyl acetate:**

Biodegradability : Result: Biodegradable

**Bioaccumulative potential****Components:****2-butoxyethyl acetate:**Partition coefficient: n-  
octanol/water : log Pow: 1.51**Mobility in soil**

No data available

**Other adverse effects****Product:**Additional ecological infor-  
mation : An environmental hazard cannot be excluded in the event of  
unprofessional handling or disposal.  
Harmful to aquatic life.**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues	:	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Environmentally hazardous	:	no

**IATA-DGR**

UN/ID No.	:	Not applicable
Proper shipping name	:	Not applicable

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Class : Not applicable  
 Subsidiary risk : Not applicable  
 Packing group : Not applicable  
 Labels : Not applicable  
 Packing instruction (cargo aircraft) : Not applicable  
 Packing instruction (passenger aircraft) : Not applicable

**IMDG-Code**

UN number : Not applicable  
 Proper shipping name : Not applicable  
 Class : Not applicable  
 Subsidiary risk : Not applicable  
 Packing group : Not applicable  
 Labels : Not applicable  
 EmS Code : Not applicable  
 Marine pollutant : Not applicable

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations****ADG**

UN number : Not applicable  
 Proper shipping name : Not applicable  
 Class : Not applicable  
 Subsidiary risk : Not applicable  
 Packing group : Not applicable  
 Labels : Not applicable  
 Hazchem Code : Not applicable

**Special precautions for user**

Not applicable

**SECTION 15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture**

Therapeutic Goods (Poisons Standard) Instrument : Schedule 6

Prohibition/Licensing Requirements : There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

**SECTION 16: ANY OTHER RELEVANT INFORMATION**

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 Date format : dd.mm.yyyy

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**Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
AU OEL : Australia. Workplace Exposure Standards for Airborne Contaminants.

ACGIH / TWA : 8-hour, time-weighted average  
AU OEL / TWA : Exposure standard - time weighted average  
AU OEL / STEL : Exposure standard - short term exposure limit

AIIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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