



APPROVAL

Summary

Approval details	
Substance name	Ethanedinitrile (EDN)
Approval code	HSR101529
Hazard classification	Flammable gas Category 1A Liquified gas Acute inhalation toxicity Category 2 Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment chronic Category 1
Active ingredient	Ethanedinitrile at 1000 g/kg
Latest process details	
Application code	APP202804
Application type	To import or manufacture for release any hazardous substance under Section 28 of the Hazardous Substances and New Organisms Act 1996 (HSNO Act)
Purpose of the application	To import or manufacture EDN for release
Considered by	A Decision-making Committee of the Environmental Protection Authority (the Committee)
Decision	Approve with controls
Decision date	05 April 2022
Approval takes effect on	DAY MONTH YEAR

Decision

1. The Committee, in accordance with section 29 of the HSNO Act, and taking into account the relevant matters in Part 2 of the HSNO Act, considered the application to import or manufacture EDN for release.
2. For the reasons set out in the decision dated 05 April 2022, the Committee approved the application for this substance. **The approval takes effect on DAY MONTH YEAR.**
3. The GHS classification as listed in the summary table above, and the controls set out in Appendix A apply to this substance.

Signed by: **Dr John Taylor**

Date: **DAY MONTH YEAR**

**Chair, Decision-making Committee of the
Environmental Protection Authority**

Appendix A: Controls applying to HSR101529

Hazardous substances and new organisms (HSNO) default controls

Control code	Regulation	Control description
LAB	EPA Labelling Notice 2017	Requirements for labelling of hazardous substances
PKG	EPA Packaging Notice 2017	Requirements for packaging of hazardous substances
SDS	EPA Safety Data Sheet Notice 2017	Requirements for safety data sheets for hazardous substances
DIS	EPA Disposal Notice 2017	Requirements for disposal of hazardous substances
HPC-1	EPA Hazardous Property Controls Notice 2017 Part 1	Hazardous Property Controls preliminary provisions
HPC-2	EPA Hazardous Property Controls Notice 2017 Part 2	Certain substances restricted to workplaces only
HPC-3	EPA Hazardous Property Controls Notice 2017 Part 3	Hazardous substances in a place other than a workplace
HPC-4A	EPA Hazardous Property Controls Notice 2017 Part 4A	Site and storage controls for substances that are hazardous to the environment
HPC-4B	EPA Hazardous Property Controls Notice 2017 Part 4B	Use of substances that are hazardous to the environment
HPC-4C	EPA Hazardous Property Controls Notice 2017 Part 4C	Qualifications required for application of substances that are hazardous to the environment

HSNO additional controls and modifications to controls

Definitions

For the purpose of this approval—

Enclosed space means:

- (a) the space under a sheet;
- (b) a shipping container.

Exposure level means the concentration of EDN in the air recorded at the monitoring location.

PCBU has the meaning defined in section 17 of the Health and Safety at Work Act 2015.

Sheet means a heavy-duty cover that—

- (a) has a low mass transfer coefficient for EDN; and
- (b) is waterproof and impenetrable.

Ventilate means the intentional release of EDN into the atmosphere following fumigation, and **ventilation** has a corresponding meaning

Code	HSNO Act	Control
Application rate	Section 77A	The maximum application rate of this substance is 120 g of substance/m ³ .
Use restriction	Section 77A	This substance must only be used as a fumigant for logs or timber for export under a sheet or in a shipping container.
Label	Section 77 Variation to Labelling Notice	The substance label must include the following statements, or words to the same effect: <ul style="list-style-type: none"> • This substance must only be used as a fumigant for logs or timber for export under a sheet or in a shipping container. The application rate must be included on the label.
Max impurity	Section 77A	The following limit is set for the toxicologically relevant impurity in the active ingredient, ethanedinitrile, used to manufacture this substance: Hydrogen cyanide: 1% v/v maximum
Tolerable exposure limit (TEL)	Section 77B	The Tolerable Exposure Limit (TEL) set for ethanedinitrile is 0.034 ppm as a 24-hour average.
Wind speed	Section 77A	A PCBU with management or control of fumigation of logs or timber using EDN must ensure that ventilation of any fumigation only occurs when a minimum wind speed of 2 m/s is measured at the site of fumigation in the 10 minutes prior to ventilation.

Code	HSNO Act	Control
Notification of fumigation	Section 77A	<ol style="list-style-type: none"> 1. A PCBU with management or control of fumigation of logs or timber using EDN must notify the PCBU's intention to carry out a fumigation to the relevant local authority. 2. The PCBU must ensure that the notification referred to in subclause (1) is made not less than 24 hours before the start of the fumigation event.
Notification of TEL exceedance	Section 77A	<p>A PCBU with management or control of fumigation of logs or timber using EDN must—</p> <ol style="list-style-type: none"> a. notify the relevant local authority as soon as practicable and within 24 hours if the exposure level exceeds the TEL value for EDN; and b. include in the notification— <ol style="list-style-type: none"> i. the source of that exceedance; and ii. the exposure value(s) that exceed the TEL value: and iii. the individual monitoring values that were used to generate each relevant 24-hour exposure level.
Annual reporting	Section 77A	<p>A PCBU with management or control of fumigation of logs or timber using EDN in the preceding calendar year must provide a copy of the annual report provided to WorkSafe under the Requirements for Specified Fumigants Amendment SWI to the Environmental Protection Authority by 31 March each year.</p>

Health and safety at work (HSW) requirements

Advisory Note: These requirements are not set for the substance but apply in their own right under the HSW (Hazardous Substances) Regulations 2017 according to the classification of the substance. They are listed here for information purposes only.

Control code	Regulation	Control description
HSW1	Part 1	Application
HSW2	Part 2	Labelling, signage, safety data sheets, and packaging
HSW3	Part 3	General duties relating to risk management
HSW4	Part 4	Certified handlers and supervision and training of workers
HSW5	Part 5	Emergency management
HSW8	Part 8	Controls applying to all class 1 to 5 substances
HSW10	Part 10	Class 2, 3, and 4 substances
HSW11	Part 11	Controls relating to adverse effects of unintended ignition of class 2 and 3.1 substances
HSW13	Part 13	Class 6 and 8 substances
HSW14	Part 14	Fumigants
HSW15	Part 15	Gases under pressure
HSW16	Part 16	Tank wagons and transportable containers
HSW17	Part 17	Stationary container systems
HSW19	Part 19	Tracking hazardous substances

Additional requirements for the substance are set through safe work instrument(s) (SWIs), a form of legislation that supports or complements health and safety regulations. SWIs specific to EDN are listed below.

- Health and Safety at Work (Hazardous Substances—Requirements for Specified Fumigants) Safe Work Instrument 2017 as amended by the Health and Safety at Work (Hazardous Substances—Requirements for Specified Fumigants) Amendment Safe Work Instrument (**DAY MONTH YEAR**).
- Health and Safety at Work (General Risk and Workplace Management—Exposure and Health Monitoring Requirements for Ethanedinitrile) Safe Work Instrument (**DAY MONTH YEAR**).

Appendix B: Regulatory history

Application code	Application type	Date decided	Comment
APP202804	To import or manufacture for release any hazardous substance under Section 28 of the Hazardous Substances and New Organisms Act 1996	05 April 2022 (approval takes effect DAY MONTH YEAR)	This is the first approval process for this substance under the Act.