Credit 2.3 Health Impacts Declaration

Glossary of terms

Biological Hazards

Any organic substance that presents a threat to the health of people or other living organisms. Biological hazards can include viruses, biological toxins, fungi, or bio-active substances etc.

Chemical Hazards

Any non-biological substance that can cause harm to life or health. Chemical hazards can be solid, liquid, or gas, and can cause harm to anyone directly exposed, usually through inhalation, ingestion, or direct contact to the skin.

Health Hazards

A health hazard is a biological, chemical, or physical factor that can have either short or long-term negative impacts on human health. This could include contaminated drinking water, exposure to toxic or carcinogenic toxins, exposure to dust or mould, exposure to viruses or contagious diseases etc.

Physical Hazards

A hazard that can cause physical harm with contact. This could include working in conditions that are too hot or too cold, vibration and noise hazards, working with explosive or flammable materials, manual handling, sharp objects, trip hazards etc.

Safety Data Sheet (SDS)

A safety data sheet contains comprehensive information about the properties of hazardous substances, the potential risks to health and safety, and how to manage these risks.

Guidance on using this template

This template has been developed for use by Applicants targeting Credit 2.3 Health Impacts Declaration from the SSA Certification Program. Use of the template is mandatory. If existing documentation is already in place in an organisation (for example a hazardous chemicals register), Applicants are encouraged to use this in the submission as well.

When filling out the template Applicants should ensure that all existing and potential chemical and physical health impacts have been identified and addressed. The intent of the declaration is to ensure the safety of all downstream users once the product is ready for use. Applicants are not required to address the fabrication of the product in this credit.

Supporting information should be provided justifying all claims made in the submission. Applicants should avoid using jargon, and all hazards and mitigating actions should be clearly explained in everyday language. Text boxes have been provided to allow for clear and detailed explanations to be provided for all required safeguards.

Please note that known hazards must be addressed, even if these have not been included in the SDS (if available).

General Information

Applicant Name: Nepean Engineering and Innovation

**Targeting Level 2B ☐ Targeting Level 3 ☒**

Product Name: Fabricated Steel Products

Description of product:

*Fabricated steel items to Customer specification.*

Submission Requirements

The lifecycle phases to be addressed in the credit are:

Please ensure you nominate the relevant lifecycle phase for each identified hazard in the Declaration.

* Transport
* Installation
* Use and maintenance
* End of life

Safety Data Sheet

Is a Safety Data Sheet (SDS) available for the product?

☐ Yes – a copy has been attached to the submission and all hazards and risks have been clearly explained

☒ No – If an SDS cannot be provided Applicants must clearly describe any identified hazards and how these have been addressed.

Ensure all hazards and risks have been clearly described

As a completed product, the steel article or assembly is relatively inert, so no SDS is required for the safety of all downstream users once the product is ready for use.   
Installation Hazards: When the fabricated article or structure is installed, there can be hazards associated with working at heights, using heavy machinery, and working in confined spaces.   
Fire Hazards: Steel is a combustible material, and if not handled properly, it can pose a fire hazard. This risk can be reduced by applying fire-resistant coatings or by following strict fire safety protocols.   
Maintenance Hazards: After the installation of the structure, regular maintenance is necessary to ensure its longevity. This can involve activities such as welding, grinding, and painting, which can generate hazardous fumes, dust, and noise.   
Structural Hazards: Structural steel can corrode or degrade over time, which can affect the integrity of the structure. If not addressed, this can result in structural failure and potential hazards to people and property.  
Transport risks: When items are despatched from NEI, there may be hazards associated with the transport of those items to the customer. This includes load shift, overloading of heavy vehicles and the like.

Physical health impacts

Disclose all identified physical health impacts for the relevant lifecycle phases:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Health Impact Identified | Method Of Identification | Relevant Safeguards | Transport | Installation | Use and Maintenance | End of life |
| Sharp edges | *Onsite risk assessment* | *All staff members are provided with training and PPE.* | *✓* | *✓* | *✓* |  |
| Fire Hazards | Design/ Specification, site fire/emergency management plan | Intumescent coatings may be specified by the designer and applied to the finished steel. |  | *✓* | *✓* | *✓* |
| Installation Hazards | Onsite risk assessment, Permits & Licences such as high-risk work licence, hot work permit etc. | Safety management system implemented for site installation works which include verification of requirements. |  |  | *✓* | *✓* |
| Transport Hazards | Transport management via CoR and Traffic Management Plans | Chain of Responsibility | *✓* |  |  |  |
| Maintenance Hazards | Customer specifications for ongoing maintenance requirements | Health and safety management plan for site works and all relevant health and safety documents provided to relevant party i.e. Customer, Sub-Contractor, Site workers. |  | *✓* | *✓* | *✓* |
| Environmental hazards leading to health impacts from improper disposal of end-of-life items | State and local government requirements, advice from subject matter experts | Steel shall be recycled or repurposed where possible. All coated steel shall be handled in accordance with relevant information sought from SDS, subject matter experts etc. to minimise health impacts from coated steel. |  |  |  | *✓* |
| VOC exposure to surface treated steel items | Coating Product Data Sheet, Safety Data Sheet | Follow NE-PN-PRO-002 – Abrasive Blast Cleaning & Painting Procedure | *✓* | *✓* | *✓* |  |

Additional Information:

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Supporting documentation

Please provide documentation to support the above statements.

|  |  |  |
| --- | --- | --- |
| Supporting Documentation  *Name of document and location in submission* | Reference  *Page no. or section of supporting document* | Description of Evidence |
| Maintenance Hazards | *Maintaining painted steel* | [*https://www.duluxprotectivecoatings.com.au/media/1564/411\_cleaning\_and\_maintenance\_of\_coatings.pdf*](https://www.duluxprotectivecoatings.com.au/media/1564/411_cleaning_and_maintenance_of_coatings.pdf) |
| Transport Hazards | CoR Requirement resources | <https://www.nhvr.gov.au/safety-accreditation-compliance/chain-of-responsibility/resources> |
| Fire Hazards | Coated steel SDS from supplier | <https://www.steel.org.au/what-we-do/focus-areas/steel-in-architecture/fire-safety/>  <https://cdn.dcs.bluescope.com.au/download/safety-data-sheet-pre-painted-steel-strip-and-sheet#:~:text=Use%20an%20extinguishing%20agent%20suitable%20for%20the%20surrounding%20fire.&text=Max%2030%20mg%2Fm%C2%B2%20per,of%20the%20packaging%20are%20combustible>. |
| Environmental Hazards | EPA standards | <https://www.epa.nsw.gov.au/your-environment/waste/waste-overview/proposed-minimum-environmental-standards-for-scrap-metal-facilities> |
| VOC Exposure Hazards | Product SDS | <https://www.duluxgroup.com.au/duluxgroup-safety-data-sheets/> |

Chemical health impacts

Disclose all identified chemical health impacts for the relevant lifecycle phases:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Health Impact Identified | Method Of Identification | Relevant Safeguards | Transport | Installation | Use and Maintenance | End of life |
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|  |  |  |  |  |  |  |

Additional Information:

N/A.

Supporting documentation

Please provide documentation to support the above statements.

|  |  |  |
| --- | --- | --- |
| Supporting Documentation  *Name of document and location in submission.* | Reference  *Page no. or section of supporting document.* | Description of Evidence |
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Version control

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| --- | --- | --- | --- | --- | --- |
| Version | Document Name | Date | Changes | Author | Reviewer |
| 1 | Health Impacts Declaration | 13/12/22 | For use | KJ | JB |
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