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: Aus Iron Industries Pty Ltd

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

Product Name: Structural Steel Fabrication

Description of product:

Fabrication of Structural Steel for infrastructure and construction projects.

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

A Safety Data Sheet is not required for our product as it is non-hazardous to downstream users.

Transport Hazards: While transporting fabricated structural steel there can be hazards associated with unsecured loads, unstable loads, slips, trips, falling, movement path awareness, chains thrown over trailer. There are also the standard hazards with driving semi trailers and the like on roadways.

Installation Hazards: While installing fabricated structural steel there can be hazards associated with falls from heights, manual handling, crush injuries, high noise levels, hit by moving steel, the use of heavy machinery.

Fire Hazards: Although steel is not considered a combustible material by the Australian Steel Institute if a fire were to occur the structural integrity of the actual structure is the wider hazard and should be considered. This risk can be mitigated through the correct application of fire resistant coatings or by following building code fire safety protocols and the like.

Maintenance Hazards: Post installation of the structural steel ongoing maintenance is required to ensure it meets its intended life cycle. The most significant of these is maintenance of the corrosion protection system such as paint or galvanising. If ongoing maintenance of the corrosion protection system is not carried out, the system will sacrifice itself at a faster rate to protect the steel substrate but eventually if left unchecked the steel will be subject to corrosion

Structural hazards: Structural steel is subject to oxidisation. If not cared for properly over time there can be hazards associated with corrosion or degradation which could affect the overall integrity of the structure. If a structural failure were to occur this poses significant risk to property and people.

Environmental hazards: While fabricating structural steel there can be hazards associated with Air emissions such as Ozone, Carbon Monoxide, Particulate matter, waste

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
Transport Hazards	*Transport management*	*Chain of responsibility*	✓			
Installation Hazards	*Onsite risk assessment, licenses, tickets*	*Installation SMS (Safety Management System) and the correct PPE. Hard hats, hearing protection, gloves, safety glasses, harnesses*		✓	✓	
Fire Hazards	*Design and specification, site fire and emergency management plan*	*Use of intumescent coatings or vermiculite, fire rated plasterboard*		✓	✓	
Maintenance Hazards	*Operation and Maintenance Manuals*	*Use of appropriate personal protective equipment including respiratory equipment, eye and hearing protection*			✓	
Structural Hazards	*Ongoing inspection and regular maintenance to detect and address any indication of corrosion*	*Adherence to the specification for the application of corrosion protection systems. Ongoing maintenance of the system including cleaning through to repairs and in some instances replacement*			✓	
Environmental Hazards	*Adhere to EPA rules and regulations and RAWR rules and regulations*	*Reduce air emissions and re-use steel where able to do so*				✓

Additional Information:

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**
Transport Hazards	*COR*	*https://www.ntc.gov.au/laws-and-regulations/heavy-vehicle-national-law* *https://www.nhvr.gov.au/safety-accreditation-compliance/chain-of-responsibility*
Installation Hazards	LOR Next Gear (Contractor Safety Management System)	https://lorhsems.com/ https://www.hammertech.com/en-au/

Structural hazards	ISO 12944 AS 5131 As 4100	https://www.icorr.org/iso-12944-standards-corrosion-protections-part1/#:~:text=ISO%2012944%20is%20a%20globally,of%20coating%20systems%20and%20paint. AS 5131 Structural Steelwork Fabrication and Erection AS 4100 Steel Structures
Fire Hazards	Intumescent Coatings	AS 5131 Structural Steelwork Fabrication and Erection AS 4100 Steel Structures https://www.nullifire.com/en-gb/products-systems/product-ranges-overview/structural-steel-fire-protection/ https://www.intumescentcoatingsystems.com.au/product-information/international-intumescent-fire-paints
Maintenance Hazards	Maintaining painted steel	https://www.duluxprotectivecoatings.com.au/media/1564/411_cleaning_and_maintenance_of_coatings.pdf
Environmental hazards	EAP & RAWR	https://www.epa.vic.gov.au/for-community/environmental-information/air-quality/air-pollution https://www.transparency.gov.au/annual-reports/department-agriculture-water-and-environment/reporting-year/2020-21-27

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
Respiratory and skin hazard from paints, solvents	*SDS for all products used*	*Use of the correct PPE including masks, gloves, safety glasses*		✓		

Additional Information:

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**
Paint hazards	*Dulux SDS*	*https://www.dulux.com.au/applicator/products/sds/*
Solvent hazards	*Dulux SDS*	*https://www.dulux.com.au/applicator/products/sds/*

Version control

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