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: **THIRD ANGLE ENGINEERING PTY LTD**

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

Product Name: **FABRICATED PRODUCTS**

Description of product:

At Third Angle Engineering, we specialize in custom fabrication using Mild Steel, Stainless Steel, and Aluminium. Our comprehensive services cater to a wide range of industries, offering expert fabrication, welding, machining, finishing, and installation solutions. To ensure the longevity and durability of your projects, we provide a variety of surface treatments, including hot dip galvanizing, powder coating, and painting.

Our fabrication capabilities extend to a diverse array of structures and components, including:

- Beams
- Columns
- Girders
- Gantries
- Trusses
- Towers
- Bridges
- Bridge Barriers
- Permanent Structural Supports
- Staircases
- Handrails
- Balustrades
- Bollards
- Fencing
- Fabricated Cages
- Roof Sheeting
- Purlins and Girts
- Structural Decking

Third Angle Engineering create reliable and high-quality fabrication solutions tailored to your specific needs.

Submission Requirements

Lifecycle phases to be assessed

Please assess and identify physical and chemical hazards of your product in each of the following lifecycle phases in the Physical Health Impacts and Chemical Health Impacts tables below:

- 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

All hazards and risks (as identified in the SDS) are to be clearly explained in every day language. All hazard statements and mitigation measures must be included here and/or in the sections below.

Physical Health Impacts

Disclose all identified physical health impacts for the relevant lifecycle phases, an example is provided below:

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* *Steel is covered with protective covering.*		✓	✓	
Movement of loads	Onsite Risk Assessment	All staff members are provided with training and PPE. Product should be picked up with suitable lifting equipment and restrained appropriately when transported	✓	✓		
Pinch Points	Onsite Risk Assessment	Use of PPE (correct gloves) when handling product. Use of procedure for loading/ installation.	✓	✓	✓	

Additional information:

Movement of loads

• Pinch Points

• Eye irritation - Excessive exposure to high concentrations of dust of this product as distributed is unlikely but may cause irritation to the eyes. Particles of iron or iron compounds, which become imbedded in the eye, may cause rust stains unless removed fairly promptly. Touching or burning operations on steel products with surface treatments, oil coatings, or acrylic films may produce emissions that can be irritating to the eyes.

• Skin irritation - Skin contact with dusts may cause irritation or sensitization, possibly leading to dermatitis. Repeated or prolonged contact with chemical surface treatments or oil residue may cause skin irritation, dermatitis, ulceration or allergic reactions in sensitized individuals

• Ingestion - Ingestion of harmful amounts of this product as distributed is unlikely due to its solid insoluble form. Ingestion of dust may cause nausea and/or vomiting

• Inhalation – Inhalation of harmful amounts of this product as distributed is unlikely due to its solid insoluble form.

• These formed solid metal products pose little or no immediate health or fire hazard in their supplied state. When product is subjected to welding, burning, melting, sawing, brazing, grinding, or other similar processes, potentially hazardous airborne particulate and fumes may be generated. Avoid inhalation of metal dusts and fumes. Operations having the potential to generate airborne particulates should be performed in well-ventilated areas and, if appropriate, respiratory protection and other personal protective equipment should be used. Iron or steel foreign bodies imbedded in the cornea of the eye may produce rust stains unless removed fairly promptly.

• Zinc is essentially non-toxic to humans. However, zinc oxide fumes may cause mild local irritation to eyes, nose, throat and upper airways. Acute over-exposure to zinc oxide fume may cause metal fume fever, characterized by flu-like symptoms such as chills, fever, nausea, and vomiting which may be delayed 3 – 10 HECKMANN BUILDING PRODUCTS INC. – SAFETY DATA SHEET (SDS) Hotdip Galvanized After Fabrication 2 hours in onset. In most cases, dermal exposure to zinc or zinc compounds does not result in any noticeable toxic effects. Zinc is not listed as a carcinogen by OSHA, NTP, IARC, ACGIH or the EU (see Toxicological Information, Section 11).

Supporting documentation

Please list documentation to support the above statements and upload the evidence in your audit record.

Supporting Documentation *Name of document and location in submission*	**Reference** *Page no. or section of supporting document*	**Description of Evidence**
Onsite Risk Assessment Appendix B. ***Example Only.***	*Pages xx - xx*	*External Onsite Risk Assessment undertaken for Applicant by [NAME] showing all identified health risks.*
Onsite Risk Assessments	Section 1 to 16	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**
Example: Respiratory hazard from coating	SDS	Adequate ventilation and appropriate PPE (masks) are required for anyone handling the product		✓	✓	
Respiratory hazard from coatings. Hot dip galvanizing and painting	SDS	Adequate ventilation and appropriate PPE (masks) are required for anyone modifying or repairing the products			✓	✓

Additional information:

These formed solid metal products pose little or no immediate health or fire hazard in their supplied state. When product is subjected to welding, burning, melting, sawing, brazing, grinding, or other similar processes, potentially hazardous airborne particulate and fumes may be generated.

Avoid inhalation of metal dusts and fumes. Operations having the potential to generate airborne particulates should be performed in well-ventilated areas and, if appropriate, respiratory protection and other personal protective equipment should be used.

Iron or steel foreign bodies imbedded in the cornea of the eye may produce rust stains unless removed promptly..

Supporting documentation

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Supporting Documentation *Name of document and location in submission.*	**Reference** *Page no. or section of supporting document.*	**Description of Evidence**
Example: *Safety Data Sheet Appendix A.*	*Pages xx - xx*	*Safety Data Sheet for Product A.*
Safety Data Sheet for Hot dip Galvanised Steel	Section 1 - 16	Safety Data Sheet for Hot dip Galvanized products
Primed only pre painted steel_strip_and_sheet	Section 1 - 16	Safety Data Sheet for Hot dip Galvanized products

Version control

Version	Document Name	Date	Changes	Author	Reviewer
1	Health Impacts Declaration	13/12/22	For use	KJ	JB
1.1	Health Impacts Declaration	17/11/23	Allowed permissions to edit all relevant areas	JB	nil
1.2	Health Impacts Declaration	22/11/23	Resized text boxes to fit text	JB	nil
1.3	Health Impacts Declaration	01/08/24	Revised permissions to edit relevant areas & formatting amendments	MC	nil