Class 5.1.1 / 5.1.2 Hazardous Substance Location

Documented Procedures & PPE

(Regulations 12.9(1)(e), 12.6, 12.11 and 12.19)

Site / Location name:

Site address:

Prepared by:

Date:

Purpose

Use this template to document the procedures and checks used to comply with regulation 12.9(1)(e) and, where applicable, regulation 12.19. Attach supporting SOPs, logs, and SDSs as evidence.

Documents to Attach

Attachments checklist (tick if attached)

- ☐ Safety Data Sheet (SDS) for each substance (current version)
- ☐ Site plan / map showing storage, use areas, and controlled zone boundary
- ☐ Inventory / maximum quantities
- ☐ PPE supplier documentation (use + maintenance instructions)
- ☐ Training and competency records for workers (Regulation 4.5)
- ☐ Emergency management information (if applicable - Part 5)

Substances and Use

Substances present at site:

How are they used and stored?

12.1 Interpretation

In this Part, unless the context otherwise requires,—
compatible, in relation to a class 5.1.1 or 5.1.2 substance and its relationship with any other substance or material, means that—
(a) the other substance or material is chemically inert in relation to the class 5.1.1 or 5.1.2 substance for the range of temperatures and pressures at which it is brought into contact with the class 5.1.1 or 5.1.2 substance; or
(b) if the other substance or material does react chemically with the class 5.1.1 or 5.1.2 substance, it does so in a way that does not cause or contribute to combustion or the expulsion of steam and hot vapours or generate an explosion or generate a class 6, 8, or 9 substance.
decomposition temperature means the temperature at which a class 5.1.1 or 5.1.2 substance will spontaneously decompose, possibly with explosive force, releasing heat and, usually, combustible by-products.
incompatible, in relation to a class 5.1.1 or 5.1.2 substance,—
(a) means a substance or material that is not compatible with the class 5.1.1 or 5.1.2 substance; and
(b) includes—
(i) a substance that is not a class 5.1.1 or 5.1.2 substance but that is classified in class 5.2, or in any of classes 1, 2, 3, 4, 6.1A, 6.1B, 6.1C, or 8:
(ii) any organic matter, or substance that contains carbon, in a form that will combust with the class 5.1.1 or 5.1.2 substance:
(iii) zinc or magnesium in any form, and any other metal in powdered form:
(iv) any substance or material that will combust with air, or will combust with or catalyse the decomposition of a class 5.1.1 or 5.1.2 substance.
use includes removing a hazardous substance from, or putting it into, a package or container.

12.6 Duty of PCBU to Ensure Personal Protective Equipment Used

Provide details and procedures regarding PPE Used, Describe the process and steps.

Details / procedures:

12.6(1)

Has the PCBU ensured that any personal protective equipment that is directly used to handle the class 5.1.1 or 5.1.2 substance is designed, constructed, and operated in such a way that the substance—

(a) does not make direct contact with any incompatible substance or material?

Provide information:

(b) does not accumulate in, or on, the personal protective equipment beyond any accumulation that is directly associated with its intended design and use, as indicated in the documentation provided under subclause (4)(b)?

Provide information:

(c) is not exposed to sufficient energy to cause combustion?

Provide information:

12.6(4)

Does the personal protective equipment—

(a) comply with the following design and construction requirements, in the circumstances in which the substance is being used or handled—

(i) cannot be degraded, attacked, or combusted by the class 5.1.1 or 5.1.2 substance; or

(ii) is resistant to such degradation, attack, or combustion for the time specified by the supplier of the equipment?

Provide information:

(b) include documentation that gives sufficient instruction on the use and maintenance of the equipment to enable it to be maintained and used in a manner that meets the requirements of this regulation?

Provide information:

12.6(5)

Have the circumstances described in subclause (4)(a) been considered, including—

the range of temperatures and pressures and the presence of other substances likely to be encountered when used as described in the documentation provided under subclause (4)(b)?

Provide information:

12.11 Requirements Where Combustion Intended or Contact Anticipated

Requirements where combustion intended or contact with incompatible substances, ignition sources, or exposure to temperature anticipated.

12.11(1)

Where contact or exposure is intended or anticipated, has the PCBU ensured that a worker uses personal protective equipment at any time when—

(a) a class 5.1.1 or 5.1.2 substance comes into contact with an ignition source or an incompatible substance or material, or may be exposed to a greater temperature than the limit set in regulation 12.5(5)?

Provide information:

(b) it is reasonable to expect that such contact or exposure might accidentally occur?

Provide information:

12.11(2)

Has the PCBU ensured that the personal protective equipment—

(a) is designed, constructed, and operated so as to prevent the substance making direct contact with the wearer or user?

Provide information:

12.9 Arrangements

(e) arrangements are in place so that— (i) every person entering the location is free of any incompatible material

Provide information:

(ii) Are arrangements in place so that direct contact by any person at the location with a class 5.1.1 or 5.1.2 substance is prevented?

Provide information:

(iii) Are arrangements in place so that accumulation of a class 5.1.1 or 5.1.2 substance on personal protective equipment inside the location is prevented, unless—

(A) the personal protective equipment complies with regulation 12.6 or 12.11; and

(B) any material that has accumulated is collected and removed from the location immediately; and

(C) the requirements of regulation 12.7(2) and (4) regarding disposal are met?

Provide information:

(iv) Are arrangements in place so that the accumulation of incompatible substances at the location is prevented?

Provide information:

(f) Is the location designed and managed so that any moisture, gas, particulate matter, or vapour of class 5.1.1 or 5.1.2 substances does not present a hazard in respect of electrical equipment that may be present?

Provide information:

(2) Except as regulation 12.10(1)(a) otherwise allows, is every package or container containing a class 5.1.1 or 5.1.2 substance within a hazardous substance location kept closed at all times (except for any permanently open vent in the package or container)?

Provide information:

r.12.19 Substances in Use

Procedures to ensure that every person leaving the location is free of any class 5.1.1 or 5.1.2 substance.

Provide information:

General precautions for Class 5 Substances

1. Do not bring in, or have on your person incompatible materials
2. Do not permit incompatible substances to accumulate at this location
3. Use equipment, systems and PPE to ensure that there is not direct contact with class 5 substances
4. Do not allow class 5 substances to accumulate on PPE (unless it is designed to allow this, and correctly managed / disposed of)
5. Make sure that there is no Class 5 substance on your clothing / PPE when leaving

Class	Incompatible classes / materials
 **5.1 Oxidising Substances**	 **1 Explosives**  **2 Flammable Gases & Aerosols**  **3 Flammable Liquids**  **4 Flammable Solids**  **5.2 Organic Peroxides**  **6.1A, B & C Toxics**  **8 Corrosives** Any organic matter or carbon containing material in a form that will combust with the class 5.1 substance. Zinc or magnesium in any form, or any powdered metal Any substance or material that will combust with air, or will combust with, or catalyse the decomposition of a class 5.1 substance

There is a controlled zone around the class 5 location and signage advising Environmental, Health and Safety precautions.

Refer to the Safety Data Sheet (SDS) and Standard Operating Procedure (SOP).