

# HAZARDOUS SUBSTANCES

## PURPOSE AND SCOPE

The intent of this document is to eliminate or minimise the risks of fatalities, injuries and incidents arising from the use and storage of hazardous substances and dangerous goods at Gamuda Australia (GA) projects / workplaces.

### CRITICAL CONTROLS

- A hazardous substance risk assessment and Safe Work Method Statement shall be conducted for hazardous substances prior to use
- Adequate training in the use of chemicals, emergency response and spill containment equipment shall be provided prior to commencing work
- Safety Data Sheets (SDS) shall be available for any hazardous chemical or dangerous good stored and handled at the project / workplace
- A hazardous substance and SDS register is established and maintained
- Any hazardous chemical that is used, handled, or stored at the project / workplace is correctly labelled (with exception to conditions specified in the WHS Regulation - Schedule 9)
- Storage of chemicals must be in accordance with the relevant SDS; non-compatible chemicals must not be stored together
- Flammable liquids and gases must only be stored in approved ventilated containers
- Containers of hazardous chemicals including oil and fuel, stored in a bunded area which is sufficient to contain 110% of the largest container and 25% of the second largest container
- Emergency response and spill containment equipment must be available where chemicals and dangerous goods are stored and used

**Note:** The above controls are to be read in conjunction with the Regulations, Standards and Codes listed below.

## SELECTION, RISK ASSESSMENT AND IMPLEMENTATION CONTROL

Prior to the introduction of any new chemical to the workplace, **GA-FRM-HSE-117 Hazardous Substance Risk Assessment** (or software equivalent) must be completed and submitted to the GA Superintendent (or equivalent) or HSE Manager for review. The risk assessment must be accompanied by a current (within 5 years) copy of the manufacturer's Safety Data Sheet (SDS) and be clearly referenced in the Project Risk Assessment and Safe Work Method Statement for the task and/or activity.

**ChemWatch (online software) will be used by Gamuda Australia for the purpose of hazardous substance and chemical management, hazardous substance risk assessments and registers of chemicals.**

Where the hazard identification / risk assessment identifies any risks associated with the storage and/or handling of the hazardous chemical, suitable controls aimed at eliminating, or reducing the risk so far as is reasonably practicable, are to be implemented prior to the activity commencing.

# INTEGRATED MANAGEMENT SYSTEM

## CRITICAL RISK STANDARD

### HAZARDOUS SUBSTANCES



Controls must be selected in line with the following hierarchy:

- Elimination – Can the hazardous chemical or material be removed from the task?
- Substitution – Is there a safer alternative?
- Isolation – Can the process be enclosed, extraction systems, etc.,
- Administration – Develop a safe work procedure and train employees
- Protective Clothing & Equipment (PPE) – Last means of control.

**Note:** Administrative controls and/or PPE are not to be used as the primary means of control unless it is not practicable to implement higher order controls.

## REGISTER OF CHEMICALS

The project / workplace must establish and maintain a register of all chemicals at the project / workplace. Projects using online software must use the Chemicals register provided in the software. Projects not using software are permitted to use **GA-FRM-HSE-116 Hazardous Substance and Chemical Register**. The quantities of each Hazardous Substances or chemical shall be recorded on the register to ensure Placard or Manifest Quantities are identified and not exceeded.

## TRAINING

All personnel who store or handle hazardous chemicals must be adequately trained to ensure they are aware of the associated risks and requirements for the safe use and handling of the hazardous chemical. They must also be aware of actions to be taken in the event of a spill or other incident involving the hazardous chemical.

## REGULATIONS, STANDARDS AND CODES

- Work Health & Safety Regulation 2011 (QLD, ACT), 2012 (SA), 2017 (NSW, NT) and 2022 (WA); Chapter 7 Hazardous Chemicals, and Schedules 8, 9, 10, 11, 12, 13 & 14
- Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulation 2007 (WA)
- Occupational Health and Safety Regulations 2017 (Vic) Part 4.1 Hazardous Substances
- Dangerous Goods (Storage and Handling) Regulations 2012 (Victoria)
- Dangerous Substances Act 2004 and Dangerous Substances (General) Regulation 2004 (ACT)
- AS/NZS 1940 – The storage and handling of flammable and combustible liquids
- AS/NZS 4332 – The storage and handling of gases in cylinders
- AS/NZS 1596 – The storage and handling of LP Gas
- AS/NZS 1216 – Class labels for dangerous goods
- AS/NZS 1319 – Safety signs for the occupational environment
- AS/NZS 3833 – The storage and handling of mixed classes of dangerous goods, in packages and intermediate bulk containers
- AS/NZS 4452 The Storage and Handling of Toxic Substances
- SafeWork Australia Code of Practice Managing Risks of Hazardous Chemicals in the Workplace

# INTEGRATED MANAGEMENT SYSTEM

## CRITICAL RISK STANDARD

### HAZARDOUS SUBSTANCES



- SafeWork Australia Code of Practice Labelling of Workplace Hazardous Chemicals
- Code of Practice Managing Risks of Hazardous Chemicals in the Workplace (NSW)
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- Code of Practice Managing Risks of Hazardous Chemicals in the Workplace (QLD)
- Code of Practice Labelling of Workplace Hazardous Chemicals (QLD)
- Code of Practice for the Storage and Handling of Dangerous Goods (Victoria)
- Code of Practice Lead No.26, 2000 (VIC)
- Code of Practice Labelling of Workplace Hazardous Chemicals (NT)
- Code of Practice Control and Safe Use of Inorganic Lead at Work (NT)
- Approved Criteria for Classifying Hazardous Substances (ACT)
- Adopted National Exposure Standards for Atmospheric Contaminants In The Occupational Environment (ACT)
- Control and safe Use of Inorganic Lead at work [NOHSC:2015(1994) (WA)
- Control of Scheduled Carcinogenic Substances [NOHSC:2014(1995)] (WA)
- [Australian Dangerous Goods Code](#)
- [Approved Criteria for Classifying Hazardous Substances \[NOHSC:1008 \(2004\)\]](#)
- [Exposure Standards Atmospheric Contaminants in the Occupational Environment \[NOHSC:1003 \(1995\)\]](#)
- [Hazardous Chemicals Requiring Health Monitoring](#)
- [Health Monitoring for Exposure to Hazardous Chemicals - Guide for PCBUs](#)
- [Guidance on the Interpretation of Workplace Exposure Standards for Airborne Contaminants](#)
- [Guidance of the Classification of Hazardous Chemicals under the WHS Regulations](#)
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## FORMS AND CHECKLISTS

- **GA-FRM-HSE-116** Hazardous Substance and Chemical Register
- **GA-FRM-HSE-117** Hazardous Substance Risk Assessment