

MCK GROUP – HS-RA-001 SPRAY TRUCK RISK ASSESSMENT

Worker-Accessible App Extract – Master Document: HS-RA-001 Risk Assessment Register V1.1



Related Documents: HS-PR-001 Risk Assessment Procedure; HS-PR-002 Daily Plant Inspection Procedure; HS-PR-003 Personal Risk Assessment (Take 5) Procedure; HS-PR-005 Incident Investigation & Reporting Procedure; OP-PR-003 Workshop Procedure; OP-PR-017 Unsafe Plant Isolation Procedure; Driving Heavy Vehicles Procedure; Fatigue Management Procedure; Manual Handling Procedure; Hazardous Substances Procedure; Spill Management & Containment Procedure; Operating Mobile Plant SWMS; Relevant task-specific SWMS; Plant Maintenance Register; Training & Competency Register; Chemwatch SDS; Relevant EMP and SSMP; MCK Group IMS Registers Master.

Risk ID	Risk Event / Activity	Hazard	Causes	Potential Impacts	Current Controls	Initial Risk	Residual Risk
SP-001	Pre-start inspection	Undetected mechanical or safety defect	Inspection not completed, defect overlooked or not reported	Vehicle failure, collision, spray system failure, injury	Daily Plant Inspection; defect reporting; maintenance system; operator checks before use	15	4
SP-002	Operator competency	Untrained or unauthorised operation	Inadequate competency verification or unfamiliarity with vehicle/spray system	Collision, chemical exposure, environmental harm	Competency verification; training records; supervision; manufacturer instructions; site induction	15	4
SP-003	Road and site travel	Collision or loss of control	Speed, traffic, rough roads, poor conditions	Serious injury, fatality, vehicle damage	Licensed driver; seatbelt; speed management; route planning; daily inspection; safe following distance	15	4
SP-004	Reversing and manoeuvring	Striking people, plant or structures	Blind spots, restricted work areas, poor communication	Crushing, collision, property damage	Mirrors/cameras; reversing alarm; exclusion zones; spotter where required; low speed	15	4
SP-005	Working near other mobile plant	Plant-to-vehicle collision	Multiple machines, blind spots, poor separation	Serious injury, fatality, plant damage	Work sequencing; exclusion zones; radio communication; designated travel paths	15	4
SP-006	Operating on slopes or unstable ground	Rollover or loss of control	Excessive slope, soft shoulders, saturated ground	Fatality, serious injury, vehicle damage	Ground assessment; controlled speed; approved travel paths; avoid unsafe slopes/edges	15	4
SP-007	Spray tank load	Vehicle instability / overloading	Tank overfilled, load exceeds limits, liquid surge	Rollover, braking impairment, component overload	Observe tank and vehicle capacity; load limits; controlled speed; avoid sudden manoeuvres	15	4
SP-008	Liquid surge during travel	Reduced vehicle stability	Partially filled tank, sudden braking or turning	Loss of control, rollover	Controlled speed; smooth braking/turning; operator awareness of liquid surge	15	4
SP-009	Filling water tank	Hose movement / slips / falls	Pressurised hose, wet surfaces, poor hose placement	Strains, falls, struck-by injury	Secure hose; controlled filling; maintain tidy area; suitable footwear; avoid overfilling	9	4
SP-010	Drawing water from approved source	Environmental contamination or bank instability	Poor access, vehicle too close to edge, unapproved water source	Rollover, erosion, environmental harm	Use approved water sources/access points; assess ground/bank stability; EMP controls	15	4
SP-011	Spraying water on roads/work areas	Collision with traffic or plant	Slow-moving vehicle, poor visibility, active haul routes	Serious injury, collision, property damage	Warning lights where fitted; radio communication; route coordination; controlled speed; separation	15	4
SP-012	Spray bar/nozzle operation	Unexpected pressurised discharge	Blocked nozzle, damaged hose, pressure retained	Eye/skin injury, injection injury	Inspect system; depressurise before maintenance; keep clear of discharge; PPE as required	12	4
SP-013	Hose handling	Manual handling strain	Heavy or awkward hose, dragging, repetitive movement	Sprains, strains, hand injury	Manual Handling Procedure; correct technique; mechanical assistance where available; gloves	9	4
SP-014	Water spray near workers/public	Reduced visibility / slip hazard	Overspray, wet surfaces, uncontrolled spray direction	Slips, reduced visibility, complaints	Control spray direction/volume; exclusion/separation; signage where required	9	4
SP-015	Dust suppression	Inadequate dust control	Insufficient water application, wind, dry conditions	Reduced visibility, respiratory irritation, environmental nuisance	Planned watering; adjust frequency to conditions; coordinate with operations	12	4
SP-016	Chemical spraying where applicable	Exposure to hazardous chemicals	Mixing, handling or spraying chemical products	Skin/eye exposure, inhalation, poisoning	Approved products only; SDS/Chemwatch; trained personnel; PPE; label instructions; controlled application	15	4
SP-017	Chemical mixing/loading where applicable	Splash or concentrated chemical exposure	Poor transfer method, spill, incorrect PPE	Serious eye/skin injury, inhalation exposure	SDS; PPE; designated mixing area; controlled transfer; spill kit; trained personnel	15	4
SP-018	Spray drift where chemicals are used	Off-target chemical exposure	Wind, unsuitable nozzle/pressure, spraying near sensitive areas	Worker/public exposure, vegetation/water contamination	Weather checks; approved application conditions; buffer/exclusion zones; correct nozzle/pressure	15	2
SP-019	Chemical spill or tank leak	Hazardous substance release	Damaged tank, hose or fitting; overfilling	Exposure, soil/water contamination, regulatory/client impact	Tank/hose inspections; spill kits; containment; emergency response; defect reporting	15	4
SP-020	Tank entry	Confined space / hazardous atmosphere	Person enters tank for cleaning or repair	Fatality, engulfment, exposure	No tank entry unless separately assessed and authorised under applicable confined-space controls	15	1
SP-021	Pump and drive components	Entanglement / moving parts	Missing guard, maintenance while operating	Serious injury, entanglement	Guards maintained; isolation before access; competent maintenance personnel	15	2
SP-022	Hydraulic or pressurised system	High-pressure fluid leak	Damaged hose/fitting, poor maintenance	Fluid injection injury, uncontrolled movement, spill	Daily inspection; preventative maintenance; isolation/depressurisation before repair	10	4
SP-023	Refuelling	Fuel spill or fire	Overfilling, hose failure, ignition source	Environmental contamination, burns, fire	Spill kits; controlled refuelling; no ignition sources; trained personnel	12	4
SP-024	Engine/exhaust area	Vehicle fire	Oil/fuel leak, dry vegetation, hot components	Fire, injury, environmental/property damage	Daily inspection; leak control; debris removal; extinguisher where fitted	15	4
SP-025	Working near overhead powerlines	Electrical contact	Raised equipment/hoses or vehicle entering unsafe clearance	Electrocution, fatality	Identify powerlines; safe approach distances; route planning; spotter where required	15	4

SP-026	Roadside or public-interface spraying	Vehicle struck by traffic	Working slowly or stopping near live traffic	Fatality, serious injury	Traffic controls where required; warning lights/signage; safe positioning; approved work area	15	4
SP-027	Maintenance and repairs	Unexpected movement or stored pressure	Inadequate isolation, pressurised system, unsecured vehicle	Crushing, fluid injection, serious injury	Unsafe Plant Isolation Procedure; competent maintenance personnel; depressurise systems; secure vehicle	15	4
SP-028	Remote or isolated operation	Delayed emergency response	Communication blackspots, remote forestry or park work	Serious injury escalation, delayed rescue	Working Alone Procedure; check-ins; radios/phones; emergency contacts; location details; first aid resources	10	4
SP-029	Fatigue during prolonged driving/operation	Reduced concentration and reaction time	Long shifts, repetitive travel, heat	Collision, poor judgement	Fatigue Management Procedure; scheduled breaks; fit-for-work expectations; supervisor monitoring	15	4
SP-030	Environmental water management	Erosion, runoff or overwatering	Excessive application, poor drainage, spraying near sensitive areas	Erosion, sediment movement, environmental harm	EMP controls; controlled application rates; avoid sensitive areas; supervisor oversight	12	4
SP-031	Tank structural integrity	Tank or mounting failure	Corrosion, cracking, damaged mounts, poor maintenance	Loss of load, vehicle instability, spill	Pre-start inspection; scheduled maintenance; inspect mounts/tank; defect reporting	10	2
SP-032	Tyres, wheels and brakes	Loss of vehicle control	Tyre failure, wheel defect, brake fault	Collision, rollover, fatality	Daily inspections; scheduled maintenance; defect reporting; unsafe plant isolation	15	4
SP-033	Psychosocial hazards	Psychosocial hazards associated with the task	Delivery schedules, fatigue, remote work and poor communication.	Stress, reduced concentration, psychological injury and increased incident risk.	Worker consultation; work planning; Fatigue Management Procedure; regular breaks; effective communication.	12	6
SP-034	Noise exposure	Excessive occupational noise	Engine, pump operation and spraying activities.	Hearing loss, reduced communication, reduced awareness and increased incident risk.	Maintain equipment; limit exposure; hearing protection; effective communication.	12	4
Controlled Document Notice: This document is a worker-accessible extract from the MCK Group HS-RA-001 Risk Assessment Register. The controlled master register contains the complete risk assessment, action tracking and review information. Refer to the current controlled version for full details.							