

RISK ASSESSMENT

Assessment Title:	Emulsifier Operations	Reference Number:	CPFRA006.01
		Company Name:	Dundas Chemical Company Ltd
		Department / Location:	Pet Foods

Risk Assessment Matrix

Risk Ratings Highlighted in 'Orange' are to be discussed– potential improvements. Risk Ratings Highlighted in 'Red' need immediate action.

<i>Risk = Likelihood x Consequence (Multiply 'X' axis by 'Y' axis)</i>		Consequence (Y)	Catastrophic (5)	5	10	15	20	25
1 – 4	Acceptable		Major (4)	4	8	12	16	20
5 – 9	Adequate		Moderate (3)	3	6	9	12	15
10 – 15	Tolerable		Minor (2)	2	4	6	8	10
16 – 25	Unacceptable		Insignificant (1)	1	2	3	4	5
			Remote (1)	Unlikely (2)	Possible (3)	Probable (4)	Certain (5)	
			Likelihood (X)					

Any queries arising from this risk assessment shall be addressed immediately with Line Management / Health & Safety Manager



Hazard(s)	Risks of Harm	Persons at Risk	Risk Rating(s)			Existing Control Measures	Residual Risk Rating(s)		
	Related to hazard identified	Persons at risk from identified hazards	X	Y	R	Existing controls measures implemented when carrying out task or using associated plant / tooling	X	Y	R
Prior to carrying out maintenance / cleaning or clearing of blockages the Emulsifier must first be isolated from the main electrical supply									
Assembly / Maintenance / Clearing Blockages	Physical loss of limb / severe cut.	Operators, maintenance staff, contractors and any persons who may come into contact with cutting blades	4	4	16	<ul style="list-style-type: none"> System in place to ensure equipment is fully isolated, locked off, tagged out and checked prior to commencing maintenance / disassembling or clearing blockages. Only authorised, competent and trained operatives to carry out equipment assembly / disassembling, maintenance & clearing of blockages. Work to be carried out to be carried out in line with manufacturers instructions and safe systems of work. When assembling emulsifier persons must ensure all guards are fitted and tested prior to connecting to a power source. Emulsifier to be set up to the specifications required to reduce the risk of materials / product becoming lodged in the equipment. Bladed to be regularly sharpened as per manufacturers guidance. Correct Personal Protective Equipment (PPE) to be worn specific to the risks involved with both the task and location. i.e. cut resistant gloves when working near / with blades (assembly or disassembling) or Hi - visibility clothing specific to the area. 	2	4	8
Cutting Blades (Moving / Rotating)	Physical loss of limb / severe cut.	Operators, maintenance staff, contractors and any persons who may come into contact with cutting blades	4	4	16	<ul style="list-style-type: none"> Pre-use inspections undertaken and to include the following checks: <ul style="list-style-type: none"> Signs of Visible Damage Guards in Place Operable Emergency Stops / Isolation Switches Fixed guards in place to prevent access to moving / rotating parts. Long hair must be tied back, and any loose clothing or jewellery must be secured or removed. Handling blades when assembling or disassembling the equipment level 5 cut protection gloves to be worn. 	2	4	8

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	<i>Related to hazard identified</i>	<i>Persons at risk from identified hazards</i>	X	Y	R	<i>Existing controls measures implemented when carrying out task or using associated plant / tooling</i>	X	Y	R
Cleaning Emulsifier (Hazardous Substances)	Contact with Hazardous Substances or dangerous equipment components i.e. cutting blades	Persons cleaning the equipment or within the vicinity	4	3	12	<ul style="list-style-type: none"> System in place to ensure equipment is fully isolated, locked off, tagged out and checked prior to commencing cleaning of any equipment components. Staff to follow safe system of work for cleaning the emulsifier. Control of Substances Hazardous to Health (COSHH) Assessments to be produced for all cleaning products used. The following Personal Protective Equipment (PPE) to be worn when carrying out cleaning of the emulsifier: <ul style="list-style-type: none"> Waterproof Clothing Safety Gloves Eye Protection – Safety Glasses Steel Toe Capped Footwear Any other PPE relevant to the area or detailed within COSHH Assessments 	2	3	6
Raw Meat Products	Biological – food borne illness from animal by-products, blood, internal fluids being processed	Operational staff and any other persons within the vicinity	4	4	16	<ul style="list-style-type: none"> All documentation relating to animal by-products delivered to site is checked by a member of staff. All animal by-products are checked for quality and decomposition prior to being processed for petfood. Regular health surveillance undertaken by employees carrying out works with raw meats. Employees processing raw meats to wear required Personal Protective Equipment (PPE) provided, including: <ul style="list-style-type: none"> Snoods Eye Protection / Fitted Visor Gloves Apron Safety Footwear Employees to maintain good levels of personal hygiene at all times – hands to be washed before eating, drinking, smoking or using the toilet. First Aid provisions located – first aid cabin. 	2	2	4

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	<i>Related to hazard identified</i>	<i>Persons at risk from identified hazards</i>	X	Y	R	<i>Existing controls measures implemented when carrying out task or using associated plant / tooling</i>	X	Y	R
Electricity	Electrocution from exposed / damaged electrical components	Equipment operators, Electricians or any persons in the vicinity	3	5	15	<ul style="list-style-type: none"> Emulsifier must be assembled, maintained and used in line with manufacturers guidance and accompanying Safe System of Work. Equipment to be isolated and locked off prior to any electrical work being undertaken. Only qualified competent persons to carry out electrical work. Equipment to be included in company Portable Appliance Test (PAT) schedule. Pre-use daily inspections to be carried out and to include inspections of any exposed / damaged electrical wires, cables, plugs and other electrical components. Any faults must be reported immediately to Line Management and equipment taken out of service until such times as the defects have been rectified. 	2	5	10
Manual Handling	Musculoskeletal injuries as a result of incorrect manual handling techniques	All operational staff carrying out manual handling activities	3	4	12	<ul style="list-style-type: none"> Correct manual handling techniques to be used. Employees to receive training / instruction on safe lifting techniques. Employees must only lift trays / loads within their capacity to lift. Seek assistance and use mechanical aids whenever possible. Gloves to be worn when handling animal by-products. 	2	2	4
Slips, Trips & Falls	Slips, trips or falls causing breaks or sprains	Any persons in the work area	3	4	12	<ul style="list-style-type: none"> Rubber matting in areas where staff are required to work as part of the mincing / emulsifying process. Work area around mincing / emulsifying operations to be cleaned between product loads. All staff within the work area to wear appropriate footwear i.e. steel toe capped work boots. 	2	2	4

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	<i>Related to hazard identified</i>	<i>Persons at risk from identified hazards</i>	X	Y	R	<i>Existing controls measures implemented when carrying out task or using associated plant / tooling</i>	X	Y	R
Noise 85db+	Noise from processing machinery causing acute and chronic hearing injury	Any persons in the immediate vicinity	4	4	16	<ul style="list-style-type: none"> All equipment to be regularly serviced in accordance with manufacturer's instructions. Survey noise levels as required and appropriate actions taken based on the findings. Occupational health surveillance to monitor the potential impacts of any exposure to noise levels undertaken by relevant staff. Operator and co-workers in work area to be provided with suitable hearing protection. Mandatory hearing protection signage to be erected in vicinity. Staff encouraged to report and issues to line management. 	3	2	6