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OCCUPATIONAL SAFETY RISK ASSESSMENT

GAFTA EXTENSION Risk Assessment Attachment

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INTRODUCTION

This document serves as an attachment for the existing Risk Assessment documentation, containing the assessment of additional risks (included in the **Gafta Fumigation Standard v8**). The method of calculating risks is the same as it was mentioned in the parent document:

Risk assessment method: The assessment of the identified risk is performed according to the Fine & Kinney method. For each risk, we determine the probability factor, frequency (exposure1), length (exposure2), and impact.

$$\text{Risk} = \text{Probability} * \text{Exposure1} * \text{Exposure 2} * \text{Impact}$$

The probability of occurrence determines the probability that the given danger will cause an accident or an occupational disease. The probability factor is determined from the table below:

Score:	Probability of occurrence:
0.5	It is practically unthinkable
1	Conceivable but unlikely
2	Unlikely, but possible in a borderline case
5	In an emergency
8	It is very possible
10	Predictable, expected

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Exposure 1 indicates the frequency with which the person is exposed to the given danger:

Score	Exposure 1:
0.5	Very rarely (less than annually)
1	Rarely (annually)
2	Sometimes (Monthly)
5	Weekly
8	Regularly (daily)
10	Constantly

Exposure 2 indicates how long a person is exposed to a particular hazard.
(In case it does not apply for a person, we use 1, so that this factor does not distort results.)

Score	Exposure 2:
0.5	In less than 1 hour
1	1-2 hours
2	2-4 hours
5	4-6 hours
8	6-8 hours
10	More than 8 hours

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The **impact** shows the consequences of a given hazard. The effect is determined according to the table below:

Score	Effect:
1	Easy, no downtime
2	Accidents, injuries, damage to health can occur, but it can lead to lighter lost working hours of 1-8 hours.
3	Accidents, injuries, damage to health, and significant downtime of more than 8 hours can occur.
5	Accidentally caused an accident, injury, damage to health resulting from a source of danger, which may lead to irreversible injury
8	Accidentally occurring accidents, injuries, damage to health occurring in several cases, which may lead to serious, disability or irreversible injury
10	Accidents, injuries or damage to health that can be proven to be very serious and can result in 1 or more fatalities

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In determining the scores of the four characteristics mentioned above, the higher value score should always be taken into account in case of uncertainty. The value of a given risk is given by the product of the scores for the four factors mentioned above. **The risk is assessed according to the table below:**

Category	Value of risk:	Risk characteristic:
1	0-9	Acceptable risk
2	10-80	Long-term action is needed
3	81-1024	Short-term Action required
4	1025-2560	Immediate corrective action is required
5	2561-15000	Stop work immediately

In case the risk score exceeds 9, it is necessary to take measures to prevent, eliminate and reduce the risk.

The identification of risk aggravating factors may be indicated in the "Comment / action in force" column of the hazard identification lists. If there is a risk aggravating factor, this should be taken into account in the assessment.

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ADDITIONAL RISKS TO CONSIDER

RISK ASSESSMENT FORM											
Risk ID	Description of the risk (with risk aggravating factor as appropriate)	Risk rating				Value of risk	Need for action	Measure	Responsible	Deadline	After the measure:
		Probability	Exposure1	Exposure2	Effect						
EXT1 / 1	Food and Feed Safety: The inadequate condition of a building can pose a risk to the efficiency of fumigation. This is addressed by pointing out the deficiencies and asking for fixing them.	5	2	1	3	30	Y	It is the responsibility of the fumigator lead to ensure that the site inspection is accurate and thorough. He must record the findings in the fumigation report .	fumigator lead or a person authorized by him	Before the start of the activity.	If the safety assessment is properly done and documented, the risk is eliminated.
EXT1 / 2	Food and Feed Safety: Incorrect calculation of dose and exposure time may risk food and feed safety.	1	1	1	3	3	Y	It is the responsibility of the fumigator lead to carry out and verify the current calculation (using material safety sheets / product labels). He must record the values in the fumigation report .	fumigator lead or a person authorized by him	Before the start of the activity.	If the calculation is verified and documented, the risk is eliminated.

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EXT1 / 3	Food and Feed Safety: Uneven distribution of the right amount can endanger food and feed safety.	2	1	1	3	6	Y	Even distribution of the quantity is the responsibility of the lead fumigator He needs to verify the fact for each job.	fumigator lead or a person authorized by him	On-site, during fumigation, before sealing the building.	In case the lead fumigator verifies the fumigant distribution, the risk is eliminated.
EXT1 / 4	Food and Feed Safety: Not using sift-free fumigants may increase food safety.	2	1	1	2	4	Y	The company should always seek to use a sift-free fumigant, which is possible for the majority of orders.	executive director or a person authorized by him	During placing the order, before the start of the activity.	With using sift-free fumigant, the risk is eliminated. In the rare case of sifting fumigant residues, please refer to chapter "Dangerous materials".
EXT1 / 5	Food and Feed Safety / Equipment: Using contaminated, perforated, damaged foil may cause harm to food and feed.	2	1	1	3	6	Y	The fumigator lead needs to inspect the foil before the fumigation job.	fumigator lead or a person authorized by him	Site before the start of the activity.	With proper inspection, the risk is eliminated.

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EXT1 / 6	Food and Feed Safety / Equipment: Contaminated or dirty equipment (especially boots) may cause harm to food and feed.	5	2	1	2	20	Y	All fumigators need to inspect their own equipment, before and after usage.	fumigator lead or a person authorized by him	Site before the start of the activity.	With adequate inspection, the risk is eliminated.
EXT1 / 7	Confidentiality / information security: sensitive business information may leak and cause competitive disadvantages.	2	1	1	1	2	I	All client contracts need to include an "NDA agreement section" to make sure the company has written protection against data leaks.	executive director or a person authorized by him	-	With proper NDA contracts the risk is eliminated.
EXT1 / 8	Confidentiality / information security: sensitive business information may leak from office computers.	2	0.5	1	1	1	I	All office computers need to use proper firewall / security settings to make sure all online documents are safe.	executive director or a person authorized by him	-	With proper computer setups this risk is eliminated.
EXT1 / 9	Confidentiality / information security: sensitive business information may leak from printed offline documents.	2	0.5	1	1	1	I	The office personnel needs to make sure the building is always closed properly after office hours.	executive director or office personnel authorized by him	-	With proper office inhouse-rules and closed doors for out-of-office hours the risk is eliminated.

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EXT1 / 10	Confidentiality / information security: online documents may disappear in case of computer malfunction or hardware crash.	2	0.5	1	1	1	I	It is advised to have cloud copies or other backups of all documents.	executive director or office personnel authorized by him	-	With proper backup strategy this risk is eliminated.
EXT1 / 11	Extreme weather conditions: In the unlikely event of too stormy wind or rain, there is risk of doing proper fumigation job.	1	0.5	1	3	1.5	I	Both employees and fumigator lead has the right to deny the job if they feel the outside conditions are dangerous to them or the efficiency of the fumigation.	Fumigator lead / All fumigators	Site before the start of the activity.	With proper training all employees has the knowledge of possibly denying a job.