

EHEDG DOCUMENT FOOD INDUSTRY RESILIENCE



Staff / Operators						
Contamination source	Transmission mechanism	Transmission control / Protection measures / PPE in production	Access / Transmission control people flow			
Contaminated droplets/ aerosols	Sneezing, coughs, smear infection. Inhalation of droplets / aerosols. possibility of smear infection.	Mask FF2 & face shield Segregation of staff through use of e.g. plexiglass or polycarbonate panels	People flow in one direction, no crossflows, e.g from raw to cooked. Social distancing (> 1,5 meter apart) in production, offices, changing rooms, washrooms, canteens etc			
Contaminated surfaces / products via smear infection.	Transmission by just touching the same object not proven, but transmission can occur via touching of contaminated surfaces and then touching the face, especially mouth, nose, eyes.	Regular cleaning and disinfection of surfaces as precautionary measure. More frequent cleaning of frequently touched surfaces. Use dedicate equipment, utensils, pens with disinfectant e.g. 70 % Ehtanol.	Reduce people flow to minimum. Dedicate people to certain areas in the plant. Reduce number of in process samples to reduce interaction with lab.			
	Inhalation of droplets and aerosols. Touching of surfaces					
			Exclusion of symptomatic staff from work. Training of staff to be aware of the symptoms and report immediately for exclusion. Active screening who is entering the plant. Fill out of questionnaire mandatory - any symptoms for corona or contact with a positive corona case. Fever screening of everyone entering the plant with an infrared thermometer. Handwashing facilities / hygiene point at strategic points in all areas, including all entrances and exits			
		Training on - hand hygiene, i.e., washing, drying, use of hand sanitisers; Respiratory etiquette, i.e., coughing into the elbow, coughing or sneezing into a disposable tissue and immediate disposal of the tissue after use, covering the nose and mouth with the hand followed by immediate hand washing; Use of disposable latex in production environment -In a plant people should have sufficient diposable tissues that are immediately thrown into wate baskets. I am not in favour of this elbow stuff because that can lead to smear transmission.	A common misunderstanding among both food business operators and customers is that it is a legal requirement that food handlers must wear gloves when handling and preparing food. It is perfectly acceptable to prepare and handle food with bare hands provided proper hand washing procedures are in place. Gloves may be used, but food workers they must be properly trained to ensure that the gloves are changed frequently and that hands are washed between glove changes and when gloves are removed. Gloves must be changed when carrying out non-food related activities such as emptying bins, handling money etc. Wearing gloves can allow bacteria to build up on the surface of the hands, so hand washing is extremely important when gloves are removed.			



Materials traffic		Decontamination
Transmission control materials / process zoning	Decontamination steps	Decontamination measures
Install transfer zone to remove secondary packaging from (raw) materials, packaging materials, supplies etc	Basic decontamination at entrance plant	56°C 15min
Strict access control plant, entrance data logging	2) re- decontamination when travelling through zones and at predefined time intervals depending on work / environment	Alcohol disinfectants (60 - 85%) or similar - Many disinfectants are active against coronaviruses and achieve their effective inactivation within minutes. Those currently recommended by the World Health Organisation (WHO), for environmental disinfection associated with SARS-CoV-2 in healthcare facilities, include: • 70% Ethyl alcohol to disinfect reusable equipment between uses. • Sodium hypochlorite at 0.5% (equivalent 5000ppm) for disinfection of frequently touched surfaces. For those in the US and countries that follow the guidance of the US-EPA, visit https://www.epa.gov/pesticide-registeration/list-n-disinfectants-useagainst-sars-cov-2 and use your EPA registration number to identify suitable disinfectants. For those in Europe and countries using the EN norms, use a disinfectant that has an official approval or local registration (partial approval for enveloped viruses) to EN 14476; EN 1276; or EN 13697.
Use of hygiene points when travelling through different zones. Hygien points are locations in the plant where people can wash hands / disinfect hands, shoes. Slould be equipped with sink, soap dispenser, desinfectant dispenser , wate basket with inliner and pivoting lid.	Identify prominent transmission and adapt cleaning plans and move to disinfecting surfaces to several times a day (e.g. handrails, toilets, doors), increase cleaning frequency also on weekends	
Shoe disinfection when entering the production buildings. Overalls often have too long trouser legs. Potential risk for transmission from floor to floor.	Prepare emergency box which can be used in case someone gets ill in the plant. The box should contain at least 3x PPE incl. Safety glasses (one for patient, one for companion, one for first aid person)	A common misunderstanding among both food business operators and customers is that it is a legal requirement that food handlers must wear gloves when handling and preparing food. It is perfectly acceptable to prepare and handle food with bare hands provided proper hand washing procedures are in place. Gloves may be used, but food workers must be properly trained to ensure that the gloves are changed frequently and that hands are washed between glove changes and when gloves are removed. Gloves must be changed when carrying out non-food related activities such as emptying bins, handling money etc. Workers should be aware that wearing gloves can allow bacteria to build up on the surface of the hands, so hand washing is extremely important when gloves are removed.
Gowning procedures when accessing critical part of process.		Hands should be washed for at least 20 seconds as follows: Wet hands under warm running water Use enough soap to form a good lather Rub all parts of hands with soap and water Lather for at least 20 seconds, vigorously and thoroughly rubbing all hand surfaces, including the fingertips and thumbs Rinse hands thoroughly with running water Dry hands thoroughly with disposable paper When entering the production area, an alcohol rub can be applied
face masks or shields, gloves, disposable overshoes		



Indirect	production areas	Utilities & suppliers
Social facilities	Control rooms / labs / procedural	Utilities & suppliers
Canteen only used by own employees. Encourage	Prepare plan how reduced workload looks like to be	Quality agreements with suppliers. No raw
truck drivers to eat in their cars/ prepare lunch area	prepared for worst case scenario Reduce workload to a	material testing inhouse.
container for truck drivers at gate.	minimum (see analysis)	
Social distancing rules canteen, meeting rooms,	No overlap between shifts; shift handover via documents	Audit "Corona critical" suppliers, especially
smoking areas, unofficial break rooms, coffee	or phone	packaging, also secondary packaging. To be
machine etc. only one chair per table helps people	loi priorie	balanced with the risk.
to follow rules		balanced with the risk.
		A. O. I
Truck drivers separate toilets / washing facilities at	De-synchromize times for shift change to allow for	Air Condtitioning systems: So far there is no
gate. Truck drivers are not allowed to leave their	distancing in changing rooms, showers, etc.	scientific evidence that the Corona virus is
truck when on site . When they enter the plant		transmitted via air conditioning sytems.
someone needs to wait already for them to hand		However it is recommended to check that the
over papers. Papers are handed over with a tool to		air conditioning system is operating as
keep distance, e.g. bar with a clip		designed
Keep record who visited the canteen and when.	Always keep one shift in reserve to bridge possible	
	quarantines. Establish a deep cleaning plan to be prepared	
	when positive cases occur.	
All toilets equipped with hygiene points,	Layout suitable for social distancing; make sure 2 m	Virus survival rates in chemicals & supplies.
appropriate signage that explains hand washing and	distance is given between working areas or a protection is	Qualify/determine/keep track of these rates,
gowning rules.	installed between working places (e.g. Polycarbonate	ask statement from suppliers for cases where
8-11-11-12	shield).	it is not obvious and/or where you have short
	o.meraj.	turnover times
No take away mode in the centers	Provide minimum one overall per day plus 1 reserve.	
No take away meals in the canteen as well as	Provide minimum one overali per day plus 1 reserve.	Postpone visits of suppliers, customers,
cutleries. Everything is handed out by the canteen		maintenance of lab equipment until you have
employees who should be highly aware of hygiene		fully established, implemented and validated
rules.		measures & controls.
	Sufficient PPE`s in place for working conditions. Humid	
keeping distance etc. In the beginning every day,	conditions will reduce time to wetting for face masks.	
use screens and posters on the wall.		
Special posters in sanitary rooms about hygiene	No (bulk) loading operations by truck drivers, use own staff	
rules (e.g. minmal 20-30 sec. for hand washing,		
disinfecting, creaming etc.)		
	Frequent hygiene training programs for operators, lab	
	personel, maintenace, contractors.	
	Adapted maintenance programs & procedures	
	Segregation of dayshifts either by time (shift planning) or	
	space (different rooms with no interaction)	
	For office areas establish plans for rotation home office.	
	Reduce the number of people who are on site at the same	
	time. This to allow to keep distances and reduce	
	contamination risk (the more people the more	
	contamination possibilities)	
	Make sure shifts or working partners are together for one	
	shift cycle and don't switch working groups in between.	
	If release analysis can't be performed anymore due to	
	missing resources agree with customers to send out	
	product without release. Release should in this case be	
	governed by keeping your CCP's under control. However, it	
	makes sense to regularly analyse sample to verify that	
	your process is still under control.	
	Have Q&A for supervisors in place with scenarios how to	1
	react	
	Check holiday planning and ask people to adapt their	
	holidays regarding company needs.	
	All meetings held via skype	
	Prepare remote access for critical employees to work from	
	home - also possible from a normal desktop PC; no laptop	
	needed	
	Send people coming back from holiday trips to home office	
	or quarantine	
		•



Hygiene points consist of hand washing facility with soap

Remark

Many disinfectants are active against coronaviruses and achieve their effective inactivation within minutes. Those currently recommended by the World Health Organisation (WHO), for environmental disinfection associated with SARS-CoV-2 in healthcare facilities. include:

- 70% Ethyl alcohol to disinfect reusable equipment between uses.
- Sodium hypochlorite at 0.5% (equivalent 5000ppm) for disinfection of frequently touched surfaces.

For those in the US and countries that follow the guidance of the US-EPA, visit https://www.epa.gov/pesticide-registeration/list-n-disinfectants-useagainst-

sars-cov-2 and use your EPA registration number to identify suitable disinfectants.

Remark 2

Hands should be washed for at least 20 seconds as follows:

Wet hands under warm running water

Use enough soap to form a good lather

Rub all parts of hands with soap and water

Lather for at least 20 seconds, vigorously and thoroughly rubbing all hand surfaces, including the fingertips and thumbs

Rinse hands thoroughly with running water

Dry hands thoroughly with disposable paper

When entering the production area, an alcohol rub can be applied

Remark 3

A common misunderstanding among both food business operators and customers is that it is a legal requirement that food handlers must wear gloves when handling and preparing food.

It is perfectly acceptable to prepare and handle food with bare hands provided proper hand washing procedures are in place. Gloves may be used by food workers, but they must be properly trained to ensure that the gloves are changed frequently and that hands are washed between glove changes and when gloves are removed.

Gloves must be changed when carrying out non-food related activities such as emptying bins, handling money etc.

Workers should be aware that wearing gloves can allow bacteria to build up on the surface of the hands, so hand washing is extremely important when gloves are removed to avoid subsequent contamination of food.