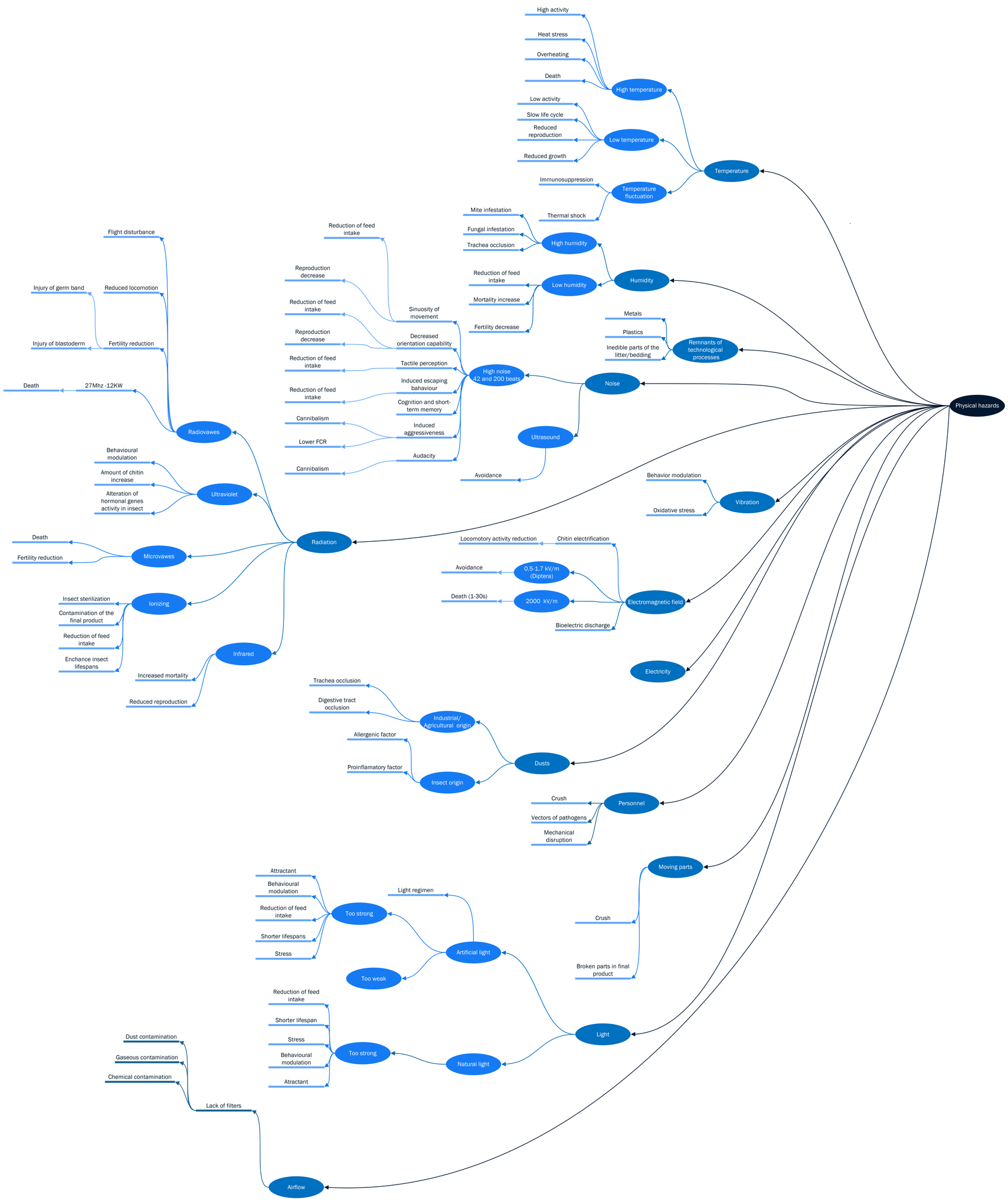
Physical hazards
Temperature
High temperature
High activity
Heat stress
Overheating
Death
Low temperature
Low activity
Slow life cycle
Reduced reproduction
Reduced growth
Temperature fluctuation
Immunosuppression
Thermal shock
Humidity
High humidity
Mite infestation
Fungal infestation
Trachea occlusion
Low humidity
Reduction of feed intake
Mortality increase
Fertility decrease
Remnants of technological processes
Metals
Plastics
Inedible parts of the litter/bedding
Noise
High noise 42 and 200 beats
Sinuosity of movement
Reduction of feed intake
Decreased orientation capability
Reproduction decrease
Tactile perception
Reduction of feed intake
Induced escaping bahaviour
Reduction of feed intake
Cognition and short-term memory
Induced aggressiveness
Cannibalism
Lower FCR
Audacity
Cannibalism
Ultrasound
Avoidance
Vibration
Behavior modulation
Oxidative stress
Electromagnetic field
Chitin electrification
Locomotory activity reduction
0.5-1.7 kV/m (Diptera)
Avoidance
2000 kV/m
Death (1-30s)
Bioelectric discharge
Electricity
Dusts
Industrial/ Agricultural origin
Trachea occlusion
Digestive tract occlusion
Insect origin
Allergenic factor
Proinflamatory factor
Personnel
Crush
Vectors of pathogens
Mechanical disruption
Moving parts
Crush
Broken parts in final product
Light
Artificial light
Light regimen
Too strong
Attractant
Behavioural modulation
Reduction of feed intake
Shorter lifespans
Stress
Too weak
Natural light
Too strong
Reduction of feed intake
Shorter lifespan
Stress
Behavioural modulation
Atractant
Airflow
Lack of filters
Dust contamination
Gaseous contamination
Chemical contamination
Radiation
Radiovawes
Flight disturbance
Reduced locomotion
Injury of germ band
Fertility reduction
Injury of blastoderm
27Mhz -12KW
Death
Ultraviolet
Behavioural modulation
Amount of chitin increase
Alteration of hormonal genes activity in insect
Microvawes
Death
Fertility reduction
Ionizing
Insect sterilization
Contamination of the final product
Reduction of feed intake
Enchance insect lifespans
Infrared
Increased mortality
Reduced reproduction