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Statement of the Problem: This thesis aims to determine risks which cause work accidents and occupational diseases belong to auto spare parts production sector and identify reasons of those risks and provide solutions for them. On the other hand, rational recommendations will be presented according to results obtained by applying necessary measurement analysis on the sources of chemical exposures which are determined in the mentioned sector. In the study, risks and sources of hazards are examined five sections in the production and storage line in which contains only the processes of metal and plastic operations as raw material in five auto spare parts manufacturing plants in Turkey. Methodology & Theoretical Orientation: Within the scope of the study, hazard and risk analyzes were made and checklists were created in the production and storage lines where 2494 workers work. Moreover, in order to determine chemical exposure; dust, fibrous dust, heavy metal and aromatic hydrocarbon measurements are applied in two different plants selected from among five. To this end, in the context of the study, hazards are examined under the title of mechanical, physical, chemical hazards, also electrically welded fire and explosions in the field of auto spare parts plants; and risks arising from those dangers are identified. It was determined that chemical exposure values differ according to methods of production, production rate, used raw materials and their portion size, the ventilation system and used gasoline vehicles in the environment, used machinery and positioning of benches. Risks that arise from mentioned hazards and solution suggestions are also presented as tables. According to the tables, sector-specified checklist in 9 different section w

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