



Análisis de riesgos de la seguridad e higiene ocupacional durante el manejo de residuos sólidos y reciclaje de plástico polietileno 1 [

2017

text (article)

Analítica

ABSTRACT Introduction. According to Pérez (2010) for each ton of waste generated by the consumption of any product, 25 tons of waste have been produced in the process of extraction of raw materials and manufacture of the product, which is why it is essential to perform a correct management of the residues taking into account the occupational safety and health risks that arise during the management. Objective. This paper identifies and evaluates occupational safety and health risks during the collection and segregation of solid waste as well as the conditioning, agglomeration and pelleting of recycled plastic. Materials and methods. The diagnosis of occupational safety was based on the registry of occupational accidents occurred in the period from July 2013 to June 2014, while the diagnosis in occupational hygiene was made from measurements of noise, illumination, thermal stress, vibration, particulate matter Total and breathable, manual handling of load and repetitive work. Results. It identified 77 hazards to which the company's workers are exposed. These hazards were assessed using the risk matrix developed by the Chilean Security Association (ACHS, 2009). Conclusion. The result of the evaluation reports that noise, total particulate matter and whole-body vibration are critical hazards, while manual handling of load, repetitive motion, heat and insufficient machinery protection are significant hazards. Almost all hazards with significant and critical risk are hazards of occupational hygiene, which implies that improvements must be made in the organization and infrastructure of the work environment as well as promoting a culture of accident prevention

ABSTRACT Introduction. According to Pérez (2010) for each ton of waste generated by the consumption of any product, 25 tons of waste have been produced in the process of extraction of raw materials and manufacture of the product, which is why it is essential to perform a correct management of the residues taking into account the occupational safety and health risks that arise during the management. Objective. This paper identifies and evaluates occupational safety and health risks during the collection and segregation of solid waste as well as the conditioning, agglomeration and pelleting of recycled plastic. Materials and methods. The diagnosis of occupational safety was based on the registry of occupational accidents occurred in the period from July 2013 to June 2014, while the diagnosis in occupational hygiene was made from measurements of noise, illumination, thermal stress, vibration, particulate matter Total and breathable, manual handling of load and repetitive work. Results. It identified 77 hazards to which the company's workers are exposed. These hazards were assessed using the risk matrix developed by the Chilean Security Association (ACHS, 2009). Conclusion. The result of the evaluation reports that noise, total particulate matter and whole-body vibration are critical hazards, while

manual handling of load, repetitive motion, heat and insufficient machinery protection are significant hazards. Almost all hazards with significant and critical risk are hazards of occupational hygiene, which implies that improvements must be made in the organization and infrastructure of the work environment as well as promoting a culture of accident prevention

ABSTRACT Introduction. According to Pérez (2010) for each ton of waste generated by the consumption of any product, 25 tons of waste have been produced in the process of extraction of raw materials and manufacture of the product, which is why it is essential to perform a correct management of the residues taking into account the occupational safety and health risks that arise during the management. Objective. This paper identifies and evaluates occupational safety and health risks during the collection and segregation of solid waste as well as the conditioning, agglomeration and pelleting of recycled plastic. Materials and methods. The diagnosis of occupational safety was based on the registry of occupational accidents occurred in the period from July 2013 to June 2014, while the diagnosis in occupational hygiene was made from measurements of noise, illumination, thermal stress, vibration, particulate matter Total and breathable, manual handling of load and repetitive work. Results. It identified 77 hazards to which the company's workers are exposed. These hazards were assessed using the risk matrix developed by the Chilean Security Association (ACHS, 2009). Conclusion. The result of the evaluation reports that noise, total particulate matter and whole-body vibration are critical hazards, while manual handling of load, repetitive motion, heat and insufficient machinery protection are significant hazards. Almost all hazards with significant and critical risk are hazards of occupational hygiene, which implies that improvements must be made in the organization and infrastructure of the work environment as well as promoting a culture of accident prevention

<https://rebiunoda.pro.baratznet.cloud:28443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzI5NTkyNzY>

Título: Análisis de riesgos de la seguridad e higiene ocupacional durante el manejo de residuos sólidos y reciclaje de plástico polietileno 1 [electronic resource]

Editorial: 2017

Tipo Audiovisual: residuos sólidos plástico polietileno riesgos peligros matriz de riesgos seguridad higiene ocupacional solid waste polyethylene plastic risks hazards risk matrix safety occupational hygiene resíduos sólidos plástico polietileno riscos perigos matriz de riscos segurança higiene ocupacional

Documento fuente: Producción + Limpia, ISSN 1909-0455, Vol. 12, N°. 1, 2017, pags. 63-71

Nota general: application/pdf

Restricciones de acceso: Open access content. Open access content star

Condiciones de uso y reproducción: LICENCIA DE USO: Los documentos a texto completo incluidos en Dialnet son de acceso libre y propiedad de sus autores y/o editores. Por tanto, cualquier acto de reproducción, distribución, comunicación pública y/o transformación total o parcial requiere el consentimiento expreso y escrito de aquéllos. Cualquier enlace al texto completo de estos documentos deberá hacerse a través de la URL oficial de éstos en Dialnet. Más información: <https://dialnet.unirioja.es/info/derechosOAI> | INTELLECTUAL PROPERTY RIGHTS STATEMENT: Full text documents hosted by Dialnet are protected by copyright and/or related rights. This digital object is accessible without charge, but its use is subject to the licensing conditions set by its authors or editors. Unless expressly stated otherwise in the licensing conditions, you are free to linking, browsing, printing and making a copy for your own personal purposes. All other acts of reproduction and communication to the public are subject to the licensing conditions expressed by editors and authors and require consent from them. Any link to this document should be made using its official URL in Dialnet. More info: <https://dialnet.unirioja.es/info/derechosOAI>

Lengua: Spanish

Enlace a fuente de información: Producción + Limpia, ISSN 1909-0455, Vol. 12, N°. 1, 2017, pags. 63-71

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es