

CMR REPORT

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Introduction

Chemical substances, singly or combined in mixtures, may have various harmful effects on human health. Some of them are categorized as “CMRs” because they are carcinogenic, mutagenic or reprotoxic. These terms are defined:

- **Carcinogens (C):** substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may induce cancer or increase thier incidence.
- **Mutagens (M):** substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may induce heritable genetic defects or increase their incidence.
- **Reprotoxins (R):** substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may produce or increase the incidence of non-heritable adverse effects in the progeny and/or an impairment or male or female reproductive functions or capacity.

List of classified chemicals (37 chemicals) are summarized in Table 1. The health hazard classification for each chemical is specified under column *Classification*.

Objectives

- a) To identify the CMRs properties of chemical hazardous to health arising from the chemical used, stored, handled, transported and disposed within the workplace.
- b) To summarize and conclude the health hazard classification of chemical hazardous to health.

Results & Conclusion

Summary of the findings are tabulated in Table 1. Table 1 lists the 37 chemical substances with hazard classification code that were stated in the Safety Data Sheet (SDS). 21 out of 37 chemicals are not classified (NC) as hazardous chemical which means that the chemicals do not possess CMRs properties. Moreover, one chemical is categorized under classification not possible (CNP) as there is insufficient data available for classifying the substance. The rest of the chemicals possess specific health hazards which may harm human via skin absorption, inhalation or ingestion. However, these chemicals do not have CMRs properties.

In conclusion, all of the chemicals are not classified as CMR substances under either the REACH registration or CLP notification process.

References

1. *Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013*. Malaysian Government Gazette: 11th December 2013
2. *CMR Substances from Annex VII of the CLP Regulation Registered under REACH and Notified under CLP-A First Screening*. European Chemicals Agency: May 2013
3. *2014 CMR Report*. European Chemicals Agency: January 2015

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