



DENSO Manufacturing Canada

Toxic Reduction Plan Summary

Toxic Reduction Plan Summary for Aluminum

Statement of Intent and Objective

- Aluminum (dust or fibres only) is currently used in DENSO Manufacturing Canada Inc., DMCN as a main component in its aluminum based fluxes, used in radiator and condenser brazing. DMCN intends to reduce the use of this toxic substance at the facility through investigation and analysis of various reduction options.

Target

- DMCN intends to explore the possibility of reducing aluminum (dust or fibres) at its facility and to implement any available options that are both technically and economically feasible.

Reduction Options to Be Implemented

- To reduce the use and creation of aluminum (dust or fibres), DMCN has considered many options. However, no additional options could be identified that were both technically and economically feasible at this time. DMCN will continue to investigate options as they become available.

This plan summary reflects the current version of DMCN's Toxic Substance Reduction Plan for Aluminum (dust or fibres) and Zinc prepared by E.K.Gillin and Associates, dated October 23, 2014.

Toxic Reduction Plan Summary for Zinc

Statement of Intent and Objective

- Zinc is currently used in DENSO Manufacturing Canada Inc., DMCN as a main component in its aluminum based fluxes used in radiator and condenser brazing, and as a coating on its radiator and condenser fin material. DMCN intends to reduce the use of this toxic substance at the facility through investigation and analysis of various reduction options.

Target

- DMCN intends to explore the possibility of reducing zinc at its facility and to implement any available options that are both technically and economically feasible.

Reduction Options to Be Implemented

- To reduce the use and creation of zinc, DMCN has considered many options. However, no additional options could be identified that were both technically and economically feasible at this time. DMCN will continue to investigate options as they become available.

This plan summary reflects the current version of DMCN's Toxic Substance Reduction Plan for Aluminum (dust or fibres) and Zinc prepared by E.K.Gillin and Associates, dated October 23, 2014.

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Toxic Reduction Plan Summary for Manganese

Statement of Intent and Objective

- Manganese is currently used in DENSO Manufacturing Canada Inc., DMCN as a main component in its condenser fin material. DMCN intends to reduce the use of this toxic substance at the facility through investigation and analysis of various reduction options.

Target

- DMCN intends to explore the possibility of reducing manganese at its facility and to implement any available options that are both technically and economically feasible.

Reduction Options to Be Implemented

- To reduce the use and creation of manganese, DMCN has considered many options. However, no additional options could be identified that were both technically and economically feasible at this time. DMCN will continue to investigate options as they become available.

Copy of Certifications

CERTIFICATION BY HIGHEST RANKING EMPLOYEE

As of November 14, 2016, I Rich VanOorschot, certify that I have read the toxic reduction plans for manganese, aluminum (dust or fibres only) and zinc. I am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.



Rich VanOorschot, Plant Director
DENSO Manufacturing Canada Inc.

CERTIFICATION BY LICENSED PLANNER

As of July 20, 2016, I, Patrick Smale, certify that I am familiar with the processes at DENSO Manufacturing Canada Inc. that use or create manganese, aluminum (dust or fibres only) and zinc, that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4 (1) of the Toxics Reduction Act, 2009 that are set out in the plan dated October 2014 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.



Patrick Smale, TRSP166, CCEP, CEA, IHT, CES
President, Industrial Hygienist