

MATERIAL SAFETY DATA SHEET
MSDS

Platinum

Product Information

Platinum is used for the production of auto catalysts, coinage, alloying and electroplating.

Vale Inco Limited
 200 Bay Street, Royal Bank Plaza
 Suite 1600, South Tower, P.O. Box 70
 Toronto, Ontario, Canada M5J 2K2

Chemtrec 24 hr Emergency No. 1-800-424-9300

WHMIS Classification: Not controlled under WHMIS

Hazardous Ingredients

Hazardous Ingredients	Composition (%)	C.A.S. No	Oral LD50 -rat	Exposure Limit (TLV) ¹² – mg/m ³
Platinum (Pt)	99.95	7440-06-04	n. av.	1

Physical Data

Grey, odourless, granular metal in two forms: nominal 100 troy ounce ingot and granular sponge.

Ingredient	Mol. Wt.	Specific Gravity	Melting point (°C)	Boiling Point (°C)	Solubility in H2O (g/100ml)
Platinum	195.09	21.45	1769	3827	0

Fire or Explosion Hazard

Not applicable.

Reactivity Data

Not applicable.

Toxicological Properties³

Platinum metal is of little toxic significance. There are no known hazards.

Preventative Measures

If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne platinum below the exposure limit. If ventilation alone cannot so control exposure, use NIOSH-approved respirators selected according to the current edition of the Selection, Care and Use of Respirators CSA Z94.4.

Mists or dusts derived from solutions of soluble platinum salts⁴ may cause dermatitis, asthma or other reactions, particularly in sensitized individuals.

If spilled, pick up and place in original container.

Platinum-containing waste is normally collected to recover platinum values. Should waste disposal be deemed necessary, follow the relevant governmental regulations.

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First Aid Measures

Not applicable.

Preparation Information

Prepared by: Vale Inco Limited
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Product Stewardship (416) 361-7801

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Note:

Vale Inco believes that the information in this Material Safety Data Sheet is accurate. However, Vale Inco makes no express or implied warranty as to the accuracy of such information and expressly disclaims any liability resulting from reliance on such information.

Footnotes:

- 1 *Threshold Limit Value of the American Conference of Governmental Industrial Hygienists.*
- 2 *Exposure Limits for user operations will depend on the relevant governmental regulations.*
- 3 *Describes possible health hazards of the product supplied. If user operations change it to other chemical forms, whether as end products, intermediates or fugitive emissions, the possible health hazards of such forms must be determined by the user.*