Honeywell

6alpha-Methylprednisolone

Product Stewardship Summary

Chemical Name:	6alpha-Methylprednisolone
Synonyms:	6 Methylprednisolone, Medrol, Methylprednisolone, Metipred, Urbason
CAS Number:	83-43-2
EC (EINECS) Number:	201-476-4
Revision number:	1-2022

- **Chemical identification and uses**: 6-alpha-methylprednisolone is the 6-alpha-stereoisomer of 6-methylprednisolone. It has a role as an anti-inflammatory drug, a neuroprotective agent, an antiemetic, an adrenergic agent, a xenobiotic and an environmental contaminant. It is a 6-methylprednisolone, a primary alpha-hydroxy ketone and a tertiary alpha-hydroxy ketone It appears as white crystalline powder. Methylprednisolone binds to and activates specific nuclear receptors, resulting in altered gene expression and inhibition of proinflammatory cytokine production. This agent also decreases the number of circulating lymphocytes, induces cell differentiation, and stimulates apoptosis in sensitive tumor cell populations.

- **Potential exposures:** Occupational exposure to methylprednisolone may occur through inhalation of dusts or dermal contact with this compound at workplaces where methylprednisolone is produced or used. Exposure to methylprednisolone among the general population may be limited to those administered the drug, an adrenocortical steroid and from environmental contamination. In case of accident by inhalation, remove the exposed person to fresh air, keep at rest, and consult a physician. After contact with skin, wash immediately with plenty of water and call a physician if symptoms persist. Good manufacturing and industrial hygiene practices should be followed to prevent or reduce contact. See the Safety Data Sheet (SDS) for additional information.

- **Human Health hazards:** Globally Harmonized System of Classification and Labelling of Chemicals (GHS), 6-alpha-methylprednisolone is reproductive toxicant and can cause toxicity to adrenal gland upon repeated exposure. It may damage fertility or the unborn child and causes damage to organs through prolonged or repeated exposure. One should refer to the Safety Data Sheet (SDS) for additional information and any specific protective information.

- **Environmental Health hazards:** Ecotoxicological and Biodegradation data for methylprednisolone were not available. If released into water, methylprednisolone is expected to adsorb to suspended solids and sediment based upon the estimated Koc. Volatilization from water surfaces is not expected to be an important fate process based upon this compound's estimated Henry's Law constant.

- Please contact us at PMTPSCustomerCare@Honeywell.com for more information. Additional information may also be found at the following links:

Pubchem – methylprednisolone