

SAFE USE INSTRUCTION

According to Reg. EC N° 1907/2006 (REACH) Art.33

This Safe use instruction satisfies the requirement to communicate information on substances in articles as per Article 33 of Regulation (EC) N°1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation Authorisation and Restriction of Chemicals. This Safe use instruction is mandatory if the substance in an SVHC identified in accordance with REACH ART. 59(1) in a concentration above 0.1% weight/weight

SUBSTANCE: 1-methyl-2-pyrrolidone

EC number: 212-828-1/CAS number: 872-50-4

1-methyl-2-pyrrolidone is a Substance of very high concern (SVHC) included in the Candidate list for Authorization, due to these properties of concern:

- Toxic for reproduction (Article 57c)

1. SAFE USE CONDITIONS

Normal use	Stable under normal use; no expected hazardous emissions
Handling Assembly Disassembly	It is recommended that appropriate Personal Protective Equipment (PPE) to be used when handling, assembling/disassembling articles though these activities may cause some very minor transfer of residue onto unprotected skin
Coating mechanical removal	Any mechanical removal of 1-methyl-2-pyrrolidonecoating shall be done with an adequate ventilation/other engineering controls to prevent release/to control dispersion from source towards the worker and using the appropriate PPE. Attention: mechanical removal techniques may generate hazardous particulates that must be disposed in accordance with applicable laws and regulations.
Coating chemical removal	Any chemical removal of 1-methyl-2-pyrrolidone coating shall be done with an adequate proper ventilation/other engineering controls to prevent release/to control dispersion from source towards the worker and using the appropriate PPE. Attention: stripping may use of chemical techniques that can generate hazardous waste that must be disposed in accordance with applicable laws and regulations
Disposal	It is recommending participating in end-of-life take back programs if available or reuse and recycle material when possible. Otherwise, disposal shall be made according to applicable regulations



2. EXPOSURE CONTROL

Engineering Controls	Technical conditions and measures at process level (source) to prevent release/to control dispersion from source towards the worker: <ul style="list-style-type: none">• Process enclosures or semi- enclosures where appropriate• Local exhaust ventilation/dust collection in the work area with potential dust generation, dust capturing and removal techniques to limit airborne dust concentration to the lowest level																								
Personal Protective Equipment (PPE)	Eyes: Safety glasses and/or goggles are recommended. Skin: Protective clothing to avoid contact with exposed skin may include coveralls, gloves and head/face covering. Disposable/single use protective clothing is recommended. An exposure assessment comply should be conducted for each task to determine if the level of dermal exposure is lower than 4,8 mg/kg/day (Derived No-Effect Levels) Respiratory protection: respiratory protection devices with adequate efficiency levels shall be worn																								
Monitoring	An exposure assessment comply should be conducted to determine if the exposure level for each task is lower than: <ul style="list-style-type: none">• Derived No-Effect Levels (DNELs) of 14,4 mg/m3 by inhalation due to REACH restriction• for workplace referring to EU value Occupational Exposure Limits (OEL): <table><tr><th rowspan="2">Region</th><th rowspan="2">Legislation</th><th colspan="3">Long-term Exposure Limit (LT-EL) Values</th><th colspan="3">Short-term Exposure Limit (ST-EL) Values</th><th rowspan="2">Skin Designation</th></tr><tr><th>mg/m³</th><th>ppm</th><th>f/ml</th><th>mg/m³</th><th>ppm</th><th>f/ml</th></tr><tr><td>European Union</td><td>OELs - Occupational Exposure Limits - 3rd list</td><td>40.0</td><td>10.0</td><td></td><td>80.0</td><td>20.0</td><td></td><td>Yes</td></tr></table>	Region	Legislation	Long-term Exposure Limit (LT-EL) Values			Short-term Exposure Limit (ST-EL) Values			Skin Designation	mg/m³	ppm	f/ml	mg/m³	ppm	f/ml	European Union	OELs - Occupational Exposure Limits - 3rd list	40.0	10.0		80.0	20.0		Yes
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Additional requirement	For workers adequate procedure shall be available and training must be provided																								

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