

Material Safety Data Sheet

Moly drop 960

 Date of issue:
 2003-03-18

 Revision date:
 2005-02-21

In accordance with: ISO 11014-1 and 2001/58/EC

Document: I001045 Ver.5

1. IDENTIFICATION OF PREPARATION AND COMPANY

Product identifier: Moly Drop 960 **Manufacturer:** Mecano-Chemie

Av.Etiopia 532, Jd. Morelato, Barueri CEP 06408-030 Sao Paulo, Brazil Telephone: +55 1141982090

Sold by: Avesta Welding AB, Finishing Chemicals

Lodgatan 14, 211 24 MALMÖ, Sweden

Telephone: +46 (0)226 82100

Application and use: Detection of molybdenium in stainless steel.

Trade name: Avesta Moly drop 960

Emergency numbers

Australia	131126 (National)	Italy	+39-2-66101029 (Milan)
	+61-2-98453111 (International)		+39-6-3054343 (Rome)
France	+33-1-40370404 (Paris)	Spain	+34-91-5620420 (Madrid)
	+33-4-72116911 (Lyon)	Sweden	020-996000 (National)
Finland	+358-(0)9-471977 (Helsinki)		+46-8-331231 (International)
Germany	+49-89-19240 (Munich)	UK	+44-1-132450530 (Leeds)
	+49-228-2873211 (Bonn)	USA	800-424-9300 (Chemtrack)

2. INFORMATION ON INGREDIENTS

Preparation

Chemical nature: Strong acid paste with corrosive properties.

Hazardous components,	CAS No.	EEC No.	Contents	Risk Code/
chemical name, formula			weight-%	R-phrase*
Hydrochloric acid, HCL	7647-01-0		30-35	C: R34, Xi : R37

^{*}The full texts of the phrases are shown in section 16.

Additional information: Classification according to directive 67/548/EEG.

Symbols and risk phrases are for concentrated substances.



3. HAZARDS IDENTIFICATION

Health hazard in case of accidental exposure (R-phrases): R34 Causes burns. R 37 Irritating to respiratory system.

4. FIRST AID MEASURES

Measures to be taken immediately after the following ways of contact with pickling acids.

Inhalation: Fresh air, rest. Rinse nose and mouth with water. Seek medical care.

Ingestion: Drink milk or water. Do not cause vomiting. Seek medical care.

Skin contact: Remove all contaminated clothing immediately. Wash off with plenty of soap and water. Always seek medical advice. Launder clothes before reuse.

Eye contact: Rinse immediately and as long as possible with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Always seek medical advice (eye specialist).

5. FIRE FIGHTING MEASURES

Danger of fire/explosion: Fluid is non-flammable. In contact with metals hydrogen gas is formed in small quantities, which together with air can give an explosion. Bottles close to fire should be removed or cooled with water.

Extinguishing media: Water.

Protective clothing for firemen: Normal protective

clothing.

How to clean or destroy soiled fire equipment: Thoroughly wash with water.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid direct contact. For personal protection see section 8.

Environmental precautions (water, air, soil):

Prevent spillage from entering sewage or public waters. Dispose of this material and its container at hazardous or special waste collection point.

Methods for cleaning up: Collect as much as possible in a clean container for (preferable) reuse or disposal. Rinse remnant with plenty of water.

7. HANDLING AND STORAGE

Handling

Technical measures: Working place and methods should be worked out in order to avoid direct contact.

To prevent fire and explosion: Not relevant.

Storage

Incompatible products: Not applicable

Storage conditions: Keep containers securely closed when not in use and in an upright position. Store in areas where temperature remains between 0-30 °C at all times.

Packaging materials: Package material must be of acid resistant plastic material.

Shelf life: At least 2 years in unopened bottle correctly stored.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: The usual precautionary measures for handling chemicals should be observed.

Exposure limits: Limiting values: CLV 8 mg/m3 Hydrogen chloride.

Personal protective equipment

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection: Rubber-gloves. **Eye protection**: Face shield.

Skin and body protection: Protective clothing.

Specific hygienic measures: Do not inhale fumes, avoid contact with eyes, skin and clothes. It is not allowed to eat, drink and smoke at workplace. Remove contaminated clothes immediately. Wash hands and face thoroughly after working with Molydrop test.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (form, colour, smell) at 20°C:

Paste, yellow, minor pungent smell.

Boiling point: 108°C

Flash point / Explosion properties: Not applicable

pH: 1-2

Density: 1300 kg/m³ (20 °C)

Viscosity: 1700-2300 mPa.s (20 °C) Solubility in water at 20 °C: Soluble.

Solubility in organic solvents: Not applicable.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Avoid high temperatures, must not be exposed to direct sunshine.

Material to avoid: Attacks copper, aluminium, zinc, magnesium and their alloys.

Hazardous decomposition products: Not applicable.



11. TOXICOLOGICAL INFORMATION

Local effects

Acute toxicity: LD50 (orally,rat):900mg/kg **Effects on the skin:** severe burns and wounds.

Effects on the eyes: Intensive pain.

After ingestion: Intensive pain.

Upon inhalation: Pain in troath.

12. ECOLOGICAL INFORMATION

Environmental effects

No data available.

Ecotoxicity: LC50 for fish (96 h) Gambusia affinis = 232mg / L.

Persistance/ degradability: Will be protolized in water to H+, Cl- .

Bioaccumulation: The product is not regarded as bioaccumulative.

13. DISPOSAL CONSIDERATIONS

Methods of disposal

Product: According to local regulations. Contact the manufacturer about recycling.

Contaminated packing: Rinse with plenty of water. **Additional information:** For further advice contact manufacturer

14. TRANSPORT

International regulations (UN)

UN-Classification No: 1789

Proper shipping name: Hydrochloric acid.

Packaging group: II

IMDG (Sea): Class 8 EmS F-A, S-B ADR/RID (road, rail): Class 8, II IATA/DGR (air): Class 8 - 1789

Additional information: The product is to be transported according to dangerous goods regulations.

15. REGULATORY INFORMATION

Regulations

Hazard and safety information:

According to handling of dangerous goods.

Danger symbols:



Corrosive

Sentences expressing the risks

R 34: Causes burns.

R 37: Irritating to respiratory system.

Sentences about safety measures

S 26: In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. OTHER INFORMATION

Training advice: The Avesta Finishing Chemicals "Handbook for the pickling and cleaning of stainless steel" and "Guidelines for Planning and Designing a Pickling Workshop".

Recommended applications and restrictions: Only for the pickling of stainless steel, not to be used on other metals.

Basic information sources used to draw up the information cards: Standard Practice for cleaning stainless steel (ASTM-A-380),

International Standard ISO 11014-11, Commission Directive 2001/58/EC

The full texts of the R-phrases in section 2 are:

R 34: Causes severe burns.

R 37: Irritating to respiratory system.

Changes made: