

## KORING 141-CLP

### *Cleaning, Lubricating and Preservative Liquid for Weapons*

#### **General:**

The cleaning, lubricating and preservative agent KORING 141-CLP is a light yellow to slightly brownish low-viscosity liquid. It is a mixture of high refined liquid hydrocarbons, anti-corrosive inhibitors, lubricants, and other additives. The product is intended for concurrent cleaning, lubrication and preservation of weapons, machines, apparatuses, etc. The agent combines several functions - dissolves fire gases in a barrel and disperses metal particles from projectiles stuck on barrel walls, dissolves previous preservatives and lubricants used, simultaneously applies a micro layer containing corrosion inhibitors, lubricating components, anti-adhesive and hydrophobic agents to the surface. The product gets dry, so after the weapon has been treated and dried, the surface is dry and at least slippery when touched. (In order to reduce friction between moving parts, the defined sliding properties have to be preserved by tixotropic lubricant.) The principle „skates on ice“ is applied for the agent. Unless a surface layer of lubricants is exposed to stress of moving parts, it is solid. As soon as the part moves and starts sliding, lubricants fluidise under pressure. The resultant surface finishing repels dust and water. Considering formation of a very thin protective layer, the first shot of fire arms is influenced to a minimum. The fact that the subsequent cleaning are much easier with this agent used than in case of other products is assessed very positively.

KORING 141-CLP has two phases of drying. In the first (faster) phase, when the product has a very low viscosity, the agent penetrates into all the places and impurities intensively come off the weapon surface. In the second drying (slower) phase, viscosity increases, grease and impurities are solvated so that they could be removed from the surface easy and unhurriedly using a saturated absorbent cloth.

#### **Methods of Application:**

The cleaning, lubricating and preservative liquid KORING 141-CLP is applied by spraying using a mechanical atomiser directly onto the surface to be treated or it is sprayed (poured) onto a cleaning absorbent lint-free cloth or another absorbent material. Small parts can be immersed directly into the agent. A wet cloth or an absorbent material can be used to apply the agent to the weapon surface. It is advisable to let the agent take effect for several minutes. After that time, wipe off dissolved and dispersed impurities from the weapon surface with a saturated cleaning material. In the operation end, wipe off the surface with a clean cloth saturated with the agent KORING 141-CLP. Saturation of auxiliary materials has to be carried out so that the agent does not drop freely during application of pressure (during squeezing). However, dry auxiliary materials can be used to wipe off the agent from the weapon surface. After having cleaned the weapon, let it dry in the open air.

If a part is heavily contaminated by previous use, improper storage conditions, etc., we recommend using an ultrasonic washer where the part is immersed in the liquid completely.

The agent has the ability to react with corrosion, especially iron corrosion, so it can be used to remove incipient pitting corrosion or to loosen rusted bolts.

#### **Advantages:**

- Tested by professional units.
- High cleaning capacity.
- Excellent capillarity, so the agent reach hard-to-get-at places as well.
- It disperses residuals of metals in barrels.
- It removes previously used preservatives and lubricants.
- It lubricates so that moving parts slide along each other.
- It protects against corrosion of both steel and non-ferrous metals.
- It protects against dust sticking.
- It repels water.
- It gets dry so that after having been treated and dried, the weapon is smooth to the touch. No drops during storage.
- It removes incipient corrosion and stabilizes the metal surface.
- Loosens "rusty" screws.
- It can also be used as a final corrosion preservative with high resistance to weather conditions.

#### **Warning:**

KORING 141-CLP has a strong degreasing effect. We recommend to wear gloves resistant to oil products during work and apply a reparative cream to your hands after works. Skin can be chapped as a result of degreasing.

The agent is a class I combustible. While handling it, do not smoke and prevent generation of sparks.

When applying the agent by spraying using a mechanical or a pressure atomiser, prevent aerosol from being inhaled. It can also be

used for immersing the products. In such a case, the containers containing the product should be covered to prevent premature evaporation of the carrier solvents. When loosening bolts, it is advisable to wait at least 5-20 minutes after application of the product before attempting to loosen them to allow the chemical reaction to dissolve the corrosion to take place.

**Packaging:**

The agent KORING 141-CLP is delivered in 25 l plastic containers or 200 l (also metal) barrels. On the customer's request, it is possible to deliver at least 10 l of the agent by mutual agreement or products otherwise modified according to an order.

**Storage Life:**

Storage life of products is 24 months in the original packaging in stores at temperatures from 5 °C to 30 °C without being exposed to direct sunlight. The principles of work with class I combustibles must be observed during storage.