

## **REGULATION FOR SPRAY PAINTING WITH INFLAMMABLE OR COMBUSTION LIQUIDS 2600ESS-292**

### **1.0 PURPOSE**

The purpose of the present regulation is to establish uniform hygiene and security requirements, for the protection of the employees from job related hazards and property damage with respect to spray painting operations.

### **2.0 BACKGROUND**

No preceding background of this regulation.

### **3.0 RANGE**

This regulation is applicable to all of the Panama Canal Authority (ACP) employees, contractors and third parties located within the installations and areas under the Authority's responsibility.

### **4.0 LEGAL GROUNDS**

This regulation is based on Agreement No. 12 of the Board of Directors of the Panama Canal Authority, Risk Control and Occupational Health Regulation, Chapter 1, Articles 8 and Chapter 11, Articles 11 and 16.

### **5.0 DEFINITIONS**

For the purposes of this regulation, the following definitions are established:

**5.1 Paint:** Any compound, mixtures or solutions of solid or liquid state utilized in the industry for coverings.

**5.2 Toxics:** Any solid, liquid or gas compound or mixtures of them which, introduced into the body or that applied on the same with a certain amount, may cause serious health trauma including death.

**5.3 Inflammable liquids:** Any liquid that at room temperature gives off fumes and whose point of flash is less than 37.8°C (100°F).

**5.4 Combustion liquids:** Any liquid with an inflammable temperature equal or greater than 37.8°C or less than 93.3°C (200°F).

**5.5 Spray painting:** Method utilized by applying paints with spraying under pressure instruments and pre-determined conditions.

### **6.0 REQUIREMENTS**

#### **6.1 GENERAL REQUIREMENTS**

**6.1.1** The supervisor shall specify the areas involved in spray painting jobs.

**6.1.2** The access to these areas shall be limited to authorized personnel only.

**6.1.3** The supervisor shall guarantee the absence of food and beverages in these areas.

**6.1.4** Every employee involved in spray painting activities shall have to have passed a half and/or full mask respiration mask test.

**6.1.5** All of the parameters to comply concerning human security as follows: allowed levels of toxicity, respiratory protection, explosion proof equipment or intrinsically secure, noise protection, skin protection and lighting arrangements, ventilation and purification (if necessary) and inherent politics ( confined spaces amongst others) shall be established by the Industrial Hygiene section's representative and/or the person designated depending on the case.

#### **6.2 LABOUR PROCEDURES**

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**6.2.1** Casual clothing will not be worn under the protection clothing.

**6.2.2** Personnel carrying out spray painting jobs shall utilize anti flame clothing, that is 100% cotton clothing.

**6.2.3** The supervisor shall be responsible for ensuring the effectiveness of the personal protection equipment (cleaning, replacement and maintenance). In addition, he shall ensure that none of these protection devices become focus of contamination.

**6.2.4** The supervisor shall be responsible of having updated and accessible security data of all of the products to be utilized (MSDSs) in a manner in which it is a permanent instrument of reference for all of the employees and for the labor conditions according to Regulation ESS2600-201, Dangerous Materials Information Regulation.

**6.2.5** The supervisor shall be responsible for the consultation of the Data Sheet of Dangerous Materials (MSMDs) before initiating, planning or carrying out a task according to the MSDS, functional experts (hygienists) or politics of the ACP.

**6.2.6** Wastes shall be treated as specified in the MSDS of the product or to the environmental protection politics already established by the ACP.

**6.2.7** The supervisor shall provide the necessary hygienic facilities (showers, dining room, dressers, amongst others).

**6.2.8** The supervisor will ensure that only previously trained and qualified personnel are the ones to be in charge and carry out the said labor.

**6.2.9** The employees may utilize half mask respirators in open spaces or with very good ventilation.

### **6.3 SURVEILLANCE WHILE EXPOSED**

**6.3.1** The assigned personnel from the Industrial Hygiene Section (ESSI) may monitor the environmental concentrations and watch over personal exposures. The Manager of the Industrial Hygiene Section will report in writing to the employees and to the Occupational Health Division when the exposure exceeds the allowed limits.

### **6.4 MEDICAL SURVEILLANCE**

**6.4.1** The employees exposed to the paints and solvents shall be provided with medical evaluations during the full length of time they remain employed by the ACP to detect any possible alteration, according to what is stipulated in the Occupational Health Division (HRH).

### **6.5. TRAINING**

**6.5.1** Employees who are exposed to the spray painting process should be instructed about the hazard of the same, of respiratory protection, personal hygiene and the need of medical evaluation when the components of the substances utilized do so require.

### **6.6. FILE MAINTENANCE AND DATA ACCESS**

**6.6.1** The units which provide the training to the employees shall keep a training log. Training provided by the Industrial and Security Development Section will be available by the Human and Financial Resources system.

**6.6.2** The records of level monitoring shall be kept in the ESSI offices.

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### **7.0 RESPONSIBILITIES**

The responsibilities of ensuring the fulfillment of this regulation are described in the ACP's Security and Occupational Health Regulation, Section 1, numeral 1.5.

### **8.0 CONSULTATIONS**

All information or clarification with respect to the contents or the application of this regulation shall be requested in writing to the ESSI or verbally to the field Hygienists.

### **9.0 EXCEPTIONS**

The temporary deviations or exceptions in the compliance of this regulation shall be requested in writing to the ESSI.

### **10.0 EFFECTIVENESS**

This regulation shall remain in effect until the same is modified or revised.

### **11.0 REFERENCES**

- 11.1 File Retention Table, Archive Administration Section, ACP.
- 11.2 Respiratory Protection Regulation (2600ESS-205)
- 11.3 Protective Clothing Regulation (2600 ESS-213)
- 11.4 Safe Practices in Confined Spaces Manual (2600ESS-290)
- 11.5 Hazardous Materials Information Regulation (2600ESS-290)
- 11.6 Audition Conservation Regulation (2600ESS-215)
- 11.7 Intrinsic Protection Regulation (2600ESS-248)