UL 1204

Outline of Investigation for Parts Cleaners

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Summary of Topics

This new issue of the Outline of Investigation for Parts Cleaners, UL 1204, is being issued to add waterbase cleaning solutions and pneumatic part cleaners.

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INTRODUCTION

1 Scope

1.1 These requirements cover parts cleaners used for cleaning or removing grease and similar substances from the item contaminanted.

1.2 These requirements cover electrically operated parts cleaners rated up to 600 V, or manual type parts cleaners with no electrical connection.

1.3 These units are intended for use with flammable/combustible liquids or non-flammable/non-combustible cleaning solutions as detailed in the instruction manual provided with the unit and labels on the unit.

1.4 Requirements for the installation and use of parts cleaners are included in the National Electrical Code, NFPA 70, the Flammable and Combustible Liquids Code, NFPA 30, the Uniform Fire Code, NFPA 1, and the International Fire Code, IFC.

1.5 These requirements do not apply to units intended to be installed outdoors, intended for use with solvents or cleaning solutions that are considered unstable, or the physiological effects of using the equipment with solvents, cleaning solutions or hazardous waste.

2 General

2.1 Components

2.1.1 Except as indicated in 2.1.2, a component of a product covered by this outline shall comply with the requirements for that component. See Appendix A for a list of standards covering components used in the products covered by this outline.

2.1.2 A component is not required to comply with a specific requirement that:

a) Involves a feature or characteristic not required in the application of the component in the product covered by this outline, or

b) Is superseded by a requirement in this outline.

2.1.3 A component shall be used in accordance with its rating established for the intended conditions of use.

2.1.4 Specific components are incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions.

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2.2 Units of measurement

2.2.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

2.3 Undated references

2.3.1 Any undated reference to a code or standard appearing in the requirements of this outline shall be interpreted as referring to the latest edition of that code or standard.

3 Glossary

3.1 For the purposes of this outline, the following definitions apply.

3.2 AUTO-IGNITION TEMPERATURE – The minimum temperature at which fuel-air mixtures will ignite spontaneously. This temperature is to be determined either at atmospheric pressure (14.7 psig), or at the maximum pressure present in the area of the fuel-air mixture, whichever is higher. At atmospheric pressure, the auto-ignition temperature of a solvent shall be determined in accordance with the Standard Test Method for Auto-Ignition Temperature of Liquid Chemicals, ASTM E 659.

3.3 COMBUSTIBLE LIQUID – A material that has a fluidity greater than 300 penetration asphalt when tested in accordance with the Standard Test Method for Penetration for Bituminous Materials, ASTM D 5, and that has a closed cup flash point at or above 37.8°C (100°F). Combustible liquids are subdivided as follows:

a) Class II liquids include those having flash points at or above 37.8°C and below 60°C (140°F);

b) Class IIIA liquids include those having flash points at or above 60°C and below 93°C (200°F); and

c) Class IIIB liquids include those having flash points at or above 93°C.

3.4 FLAMMABLE LIQUID – A material that has a fluidity greater than 300 penetration asphalt when tested in accordance with the Standard Test Method for Penetration for Bituminous Materials, ASTM D 5, and that has a closed cup flash point below 37.8°C (100°F) and a vapor pressure not exceeding 2068 mm Hg (40 psia). Flammable liquids are Class I liquids, and are subdivided as follows:

a) Class IA liquids include those having flash points below 22.8°C (73°F) and having a boiling point below 37.8°C (100°F);

b) Class IB liquids include those having flash points below 22.8°C (73°F) and having a boiling point at or above 37.8°C (100°F); and

c) Class IC liquids include those having flash points at or above 22.8°C (73°F) and below 37.8°C (100°F).

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