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Standard Specification for Vapor-Degreasing Solvents Based on *normal*-Propyl Bromide and Technical Grade *normal*-Propyl Bromide[1]

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1. Scope

1.1 This standard covers solvents based on stabilized *normal*-propyl bromide (*n*PB) for use in vapor degreasing. The standard also includes a separate specification for technical-grade *n*-propyl bromide.

1.2 Blends and azeotropic mixtures of stabilized *n*PB for vapor-degreasing shall be blended from *n*PB meeting the specification for technical-grade *n*PB.

NOTE 1—Practices D3844 and D4276 and MNL2[2] provide additional important information on vapor degreasing and solvent properties.

2. Referenced Documents

2.1 *ASTM Standards:*[3]

D1078 Test Method for Distillation Range of Volatile Organic Liquids

D2108 Test Method for Color of Halogenated Organic Solvents and Their Admixtures (Platinum-Cobalt Scale)

D2109 Test Methods for Nonvolatile Matter in Halogenated Organic Solvents and Their Admixtures

D2111 Test Methods for Specific Gravity and Density of Halogenated Organic Solvents and Their Admixtures

D2251 Test Method for Metal Corrosion by Halogenated Organic Solvents and Their Admixtures

D2942 Test Method for Total Acid Acceptance of Halogenated Organic Solvents (Nonreflux Methods)

D2989 Test Method for Acidity-Alkalinity of Halogenated Organic Solvents and Their Admixtures

D3401 Test Methods for Water in Halogenated Organic Solvents and Their Admixtures

D3741 Test Methods for Appearance of Admixtures Containing Halogenated Organic Solvents

D3844 Guide for Labeling Chlorinated Hydrocarbon Solvent Containers

D4276 Practice for Confined Area Entry

D4755 Test Method for Free Halogens in Halogenated Organic Solvents and Their Admixtures

2.2 *Other Documents:*[4]

29 CFR 1919.1200 Department of Labor, OSHA Regulations on Hazard Communications[4]

49 CFR 100 to 199 Department of Transportation Hazardous Materials Regulations

3. Properties

3.1 Vapor-degreasing solvents based on stabilized *normal*-propyl bromide shall conform to the requirements prescribed in Table 1. The metal corrosion tests described in Test Method D2251 (test at reflux temperature only) shall be performed with aluminum (Al 1100). It is recommended, but not a requirement of this specification, that this test also be carried out by the end user on all metal alloys expected to contact the solvent during the intended storage and use.

3.2 Blends and azeotropic mixtures of stabilized *n*PB with other materials for use in vapor degreasing shall be prepared from technical-grade *n*PB which conforms to the requirements prescribed in Table 2.

4. Packaging

4.1 Industrial or commercial quantities shall be packaged and labeled in accordance with DOT regulations as found in 49 CFR 100 to 199 and state and local regulations, and with OSHA Regulations found in 29 CFR 1910.1200.

5. Keywords

5.1 *normal*-propyl bromide; 1-bromopropane; vapor-degreasing solvent

[1] This specification is under the jurisdiction of ASTM Committee D26 on Halogenated Organic Solvents and Fire Extinguishing Agents and is the direct responsibility of Subcommittee D26.02 on Vapor Degreasing.

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[2] *Manual on Vapor Degreasing, MNL2*, Third Edition, ASTM.

[3] For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

[4] The *Code of Federal Regulations* may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.