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Standard Specification for Reclaimed Methylene Chloride^{1,2}

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1. Scope

1.1 This specification covers the grade of methylene chloride typically needed in various industries for noncritical applications, such as in paint stripping formulations. It may be used as a reference document by purchasers or by persons establishing in-house methylene chloride recovery programs.

1.2 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:³

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

D2988 Test Methods for Water-Soluble Halide Ion in Halogenated Organic Solvents and Their Admixtures

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

D6806 Practice for Analysis of Halogenated Organic Solvents and Their Admixtures by Gas Chromatography

E1064 Test Method for Water in Organic Liquids by Coulometric Karl Fischer Titration

2.2 U.S. Government Documents:⁴

29 CFR 1910.1200 Department of Labor, OSHA Regulations on Hazard Communications

49 CFR 100 to 199 Department of Transportation Hazardous Materials Regulations

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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 Methylene chloride: CAS #75-09-02.

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.

3. Properties

3.1 Reclaimed methylene chloride shall meet the requirements of Table 1.

4. Packaging and Package Marking

4.1 Package and label industrial or commercial quantities in accordance with DOT regulations as found in 49 CFR 100 to 199, and in accordance with state and local regulations, and with OSHA regulations found in 29 CFR 1910.1200.

5. Keywords

5.1 dichloromethane; halogenated solvent; MCH; MCL; MeCl; methylene chloride; reclaimed

⁴ The *Code of Federal Regulations* may be obtained from U.S. Government Publishing Office (GPO), 732 N. Capitol Street, NW, Washington, DC 20401, <http://www.gpo.gov>.

TABLE 1 Physical Properties

Property	Specification	Test Method
Specific gravity, 25/25	1.318 to 1.323	D2111
Acidity, as HCl, ppm, max	1.0	D2989
Water, ppm, max	500	D3401 or E1064
Appearance	Clear and free from suspended matter	D3741
Color, Pt-Co, max	50	D2108
Nonvolatile residue, ppm, max	50	D2109
Chloride, ppm, max	1.0	D2988
Assay, weight %	95.0	D6806
1,1,1-Trichloroethane content, weight %, max	0.5	D6806

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