

How to Read a Generic Material Safety Data Sheet

DuPont Performance Coatings Material Safety Data Sheet (Incomplete Instructional Sample Only)

SECTION 1 - Product and Company Identification

Information in This Section. The first section identifies the manufacturer, contact telephone numbers, product/material, DOT shipping name and hazardous materials information.

SECTION 2 – Composition/Information on Ingredients

Information in This Section. This section lists all of the hazardous ingredients which could be found in any of the products included in the MSDS, their CAS#, vapor pressure and exposure limits – if available. See section 11 for product specific ingredients.

SECTION 3 – Hazards Identification

Information in This Section. This section describes the potential health effects to those exposed to the product through inhalation, ingestion, skin or eye contact. Potential health effects of the product family are listed first. Potential effects specific to individual chemicals used in the product family are listed next. Acute (immediate) and chronic (long-term) health effects are stated. Chronic effects are particularly dangerous because you may not experience discomfort in the presence of the material, but may develop symptoms later. Some materials may potentially harm a particular organ of the body, and such "target organs" (heart, liver, lungs, kidneys, etc.) would be listed. If the material is a known IARC, NTP or OSHA carcinogenic, that information will be included here.

SECTION 4 –First Aid Measures

Information in This Section. First aid and medical treatments for accidental exposure are described for inhalation, ingestion, skin or eye contact in this section.

SECTION 5 – Fire-Fighting Measures

Information in This Section. Section 5 will recommend protective clothing or respiratory protection equipment and types of extinguishing materials effective to fight a fire involving these products. Familiarity with the information in this section will assist you with preplanned response procedures and equipment.

SECTION 6 – Accidental Release Measures

Information in This Section. Safe work practices to follow in the event a material is released or spilled are in this section. Recommendations on how to handle a spill while safeguarding your health and protecting the environment from further damage are offered here. The methods will include recommendations for adequate ventilation, use of personal protective equipment and instructions for the care and disposal of contaminated waste are given. Ecological information is provided.

SECTION 7 – Handling and Storage

Information in This Section. Safe handling and storage of the material are described in this section as well as combustibility, flammability, and extreme flammability.

SECTION 8 – Exposure Controls/Personal Protection

Information in This Section. Section 8 provides engineering controls and personal protective equipment to help prevent exposure to the product.

SECTION 9 – Physical and Chemical Properties

Information in This Section. The physical and chemical properties included in this section are not based on an individual product, but are based on the product family. Therefore, these properties are listed as ranges.

SECTION 10 – Stability and Reactivity

Information in This Section. This section will tell you about the material's stability, incompatibility (materials to avoid), hazardous decomposition products, hazardous polymerization (reacts with itself), sensitivity to static discharge and sensitivity to mechanical impact.

SECTION 11 - Additional Information

Information in This Section. This section lists all product specific information including ingredients and physical constants. Using 7185S™ as an example, we can see that only the hazardous ingredients contained in that specific product are included in this section. Weight percentages are indicated in parentheses for those ingredients subject to the reporting requirements of (SARA) Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, and 40 CFR 372. Therefore, the concentration information is listed for 1,2,4-trimethyl benzene, but not for aromatic hydrocarbon, hydrotreated heavy naphtha (petroleum), etc.

PRODUCT CODE

INGREDIENTS (Product Specific)

Example:

7185S™ 1,2,4-trimethyl benzene(2%*), Aromatic hydrocarbon, Hydrotreated heavy naphtha (petroleum), Methyl amyl ketone, Methyl isobutyl carbinol, VM&P naphtha
GAL WT: 6.65 WT PCT SOLIDS: 0.17 VOL PCT SOLIDS: 0.13
SOLVENT DENSITY: 6.65 VOC LE: 6.6 VOC AP: 6.6
FLASH POINT: 73 deg F to below 100 deg F H: 2 F: 3 R: 0
OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES

Definition of Terms

(*).....Weight percent of SARA Section 313 chemical
(@).....Weight percent of Hazardous Air Pollutants (HAPS)
Gallon Weight..(Coating density) – in lbs/gallon
VOC_{le}.....Less Exempt – lbs/gallon of volatile organic compounds (less wt. % water and exempt solvent), excluding the volume of water and exempt solvent.
VOC_{ap}.....As Packaged – lbs/gallon of volatile organic compounds (less wt. % water and exempt solvent)
Solvent Density..in lbs/gallon – Is a measure of mass per unit of volume and is calculated – $(\text{Gal Wt})(100 - \text{WT PCT Solids}) / (100 - \text{VOL PCT Solids})$
Percent Solids.. WT PCT SOLIDS = Weight Percent of Non-Volatiles
WT PCT Volatiles = 100 – WT PCT Solids
VOL PCT SOLIDS= Volume Percent of Non-Volatiles
VOL PCT Volatiles = 100 – VOL PCT Solids
Flashpoint.....in °F, the temperature range at which a flammable liquid gives off sufficient vapor to form an ignitable mixture with air near its surface or within a vessel.
OSHA Storage Classification...Classification used to identify the risks of fire or explosion associated with a liquid.
TSCA Status.....Toxic Substances Control Act of 1976 controls the exposure to and use of raw industrial chemicals not subject to other laws. In compliance means material meets TSCA requirements.
Photochemical Reactivity...Volatile Organic Compounds reacting with nitrous oxides in the presence of ultraviolet light to form ground level ozone or smog. A material is either photo-chemically reactive or non-photo-chemically reactive.

Updates to the Generic MSDS Program are posted to the DuPont Automotive Finishes website in January, April, July, and October. You can access the website at the following URL: www.pc.dupont.com. Click on Visitors if you are not a registered user and then select products. Select a MSDS category - Automotive Finishes (Refinish), Hot Hues, Nason, or Industrial Coatings, from the left side of the screen. Then you can view or print any Generic MSDS you may need. We encourage you to visit the website at least quarterly to ensure you have the most recent version of these Material Safety Data Sheets.

Y. B. Yarbrough 010111