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TO: John Nelson

FROM: Tom Grumbles

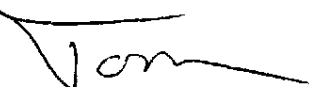
DATE: May 15, 1985

SUBJ: VISTA PETROLEUM SOLVENTS TECH DATA SHEETS

Interoffice
Communication

VISTA

Enclosed is draft text for the Safety and Handling and Storage and Transfer sections for subject Tech Data Sheet. Please replace those sections with this text.



Thomas G. Grumbles

Enclosure

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SAFETY AND HANDLING

VISTA Petroleum solvents are volatile liquids, and their vapors can be readily ignited. Handling should be done only with adequate ventilation and care taken to avoid inhalation of vapors and repeated or prolonged contact with the skin. All contact with the eyes should be avoided.

STORAGE AND TRANSFER

VISTA NPSO and HPSO are classed as flammable liquids by DOT and OSHA. VISTA MR and LPA are classed as combustible liquids. Transportation, storage, and handling must be done in accordance with specific DOT and OSHA regulations governing these materials.

Storage in carbon steel tanks is suitable. Conventional lines, pumps, hoses, and fittings are satisfactory for use. Normal precautions against corrosion of equipment from water leaks or condensation should be taken.

THE DATA CONTAINED..... etc.

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Description/Applications:**NPSO**

Vista NPSO solvent is a high-purity solvent naphtha with a typical boiling range of 200-350 F and an aromatics level of ten percent.

NPSO solvent is suggested for use as a vehicle for inks and coatings and in general applications for solvent naphthas. NPSO should pass California's Rule 66, which prohibits the discharge of photochemically reactive solvents. NPSO is also suitable as a feedstock for BTX units, naphtha steam crackers, and reformers.

HPSO

Vista HPSO solvent is a severely-hydrogenated solvent naphtha. It has extremely low levels of aromatics, sulfur, and nitrogen and a boiling range similar to Vista NPSO solvent.

HPSO is suitable for ink and coating applications or where a low-aromatic naphtha is required. HPSO complies with California's Rule 66. Its high purity also suggests HPSO for use as a process solvent or product carrier where high purity and low odor are critical.

MR

Vista MR solvent is a high-purity hydrocarbon in the kerosene boiling range. It is colorless and has a mild odor, low viscosity, and a typical aromatics level of 15 percent. Vista MR solvent has extremely low sulfur and nitrogen contents.

Vista MR solvent is suitable for use as a coatings vehicle, No. 1-K low-sulfur kerosene for heaters and lamps, drilling fluid base oil, and in other applications requiring a highly-refined kerosene. MR solvent is expected to comply with California's Rule 66 limiting the use of photochemically reactive solvents.

LPA

Vista LPA solvent is a very high-purity aliphatic hydrocarbon solvent in the kerosene boiling range. It is a colorless liquid with a mild odor, low viscosity, and extremely low aromatics, sulfur, and nitrogen contents.

LPA solvent is suitable for use in the applications listed above and also as a component in household products, agricultural chemicals, or as a chemical process solvent. LPA solvent qualifies for safe use under California's Rule 66 prohibiting the use of photochemically reactive solvents. LPA also qualifies for use in a wide variety of food-related applications where a low level of polynuclear aromatics is essential. Solvents of this type are described in CFR 172.884, 178.3650, and 178.3620. Further details can be found in the Technical Data Sheet for Vista LPA solvent.

Technical Data for Vista Solvent Products

	MR	LPA	NPSO	HPSO
Distillation Range, F (ASTM D-86)				
IEP	370	370	200	200
10	390	395	250	250
20	400	405	258	258
50	420	430	273	273
90	475	475	294	294
95	480	480	300	300
EP	510	518	350	350
Aromatics, wt. %	15	0.1	10	0.1
Flash Point, F (Pensky-Martens)	144	144	< 70F	< 70F
Color, Saybolt	+30	+30	+30	+30
Water, ppm	20	20	27	27
API Gravity	42	44.1	55.5	57
Specific Gravity at 60/60F	0.827	0.806	0.757	0.75
Bromine Number (< 0.02)	< 0.02	< 0.02	(< 0.02)	< 0.02
Sulfur, ppm	< 1	< 1	(5)	< 1
Nitrogen, ppm	< 1	< 1	(< 1)	< 1
Carbonyl as C=O, ppm	< 10	10	(10)	10
Aniline Point, F	145	160	126	134
Kauri Butanol Value	33.5	31.5	36	34
Viscosity, cSt				
70 F	2.17	2.10	0.84	0.87
100 F	1.63	1.80	0.70	0.74

Estimated values are indicated in parentheses. All HPSO values are estimates.

Safety and Handling:

Except for combustibility, these products present no extraordinary handling hazards. Normal, good operating procedures and housekeeping should ensure personnel safety. In any event, normal care should be taken to avoid contact with eyes or prolonged contact with skin by the solvent.

THE DATA CONTAINED HEREIN ARE FOR GENERAL INFORMATIONAL PURPOSES ONLY. PLEASE REFER TO THE VISTA CHEMICAL COMPANY MATERIAL SAFETY DATA SHEET FOR SPECIFIC, COMPLETE INFORMATION REGARDING THIS PRODUCT.

Storage and Transfer:

Solvents are classified as combustible liquids and should be shipped in accordance with DOT regulations. Title 49, Part 172, Subparts C-shipping papers, D-marking and F-placarding as directed by Part 173.118(a). Handling should be in accordance with Department of Labor, Title 29, Section 1910.106. Storage in carbon steel tanks is suitable. Conventional lines, pumps, hoses and fittings are satisfactory for use. Normal precautions against corrosion of equipment from water leaks or condensation should be taken.

Availability:

Vista solvents are available in rail cars and tank trucks from Westlake, Louisiana.

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