



## Technical Data Sheet

### Hexyl CELLOSOLVE™ Solvent

**Synonyms**

Ethylene glycol monohexyl ether; n-hexylglycol.

**Sustainability Attribute:****Chemical Formula**

C<sub>6</sub>H<sub>13</sub>OCH<sub>2</sub>CH<sub>2</sub>OH

**Product Description**

Hexyl CELLOSOLVE™ Solvent is a high boiling point, slow evaporating rate solvent with excellent solvency characteristics. It has the characteristic structure of glycol ethers and contains both ether and alcohol functional groups in the same molecule. As a result, it provides unique cleaning power for removal of both water-soluble and greasy (water insoluble) soils. The linear hexyl portion of Hexyl CELLOSOLVE™ Solvent provides excellent oil solubility characteristics that make it useful in both consumer and industrial cleaner applications. Hexyl CELLOSOLVE™ Solvent plays an important role in specialty printing inks. Because of its limited water solubility and slow evaporation, it can be used in formulations for the silk screen process to prevent premature setting of the ink.

**Uses / Applications**

- Solvent in specialty printing inks
- Coalescent for water-borne, latex-based coatings
- Coupling agent and solvent in household and industrial cleaners, rust removers, hard surface cleaners, and disinfectants
- Primary solvent in solvent-based silk screen printing inks

**Typical Physical Properties**

Property	Unit	Value
Molecular weight	g/mol	146.2
Boiling point @ 760 mmHg, 1.01 ar	°C (°F)	208 (406)
Flash point (Setaflash Closed Cup)	°C (°F)	91.5 (210)
Freezing point	°C (°F)	-50 (-58)
Vapor pressure @ 20°C — extrapolated	mmHg	0.05
	kPa	0.01
Specific gravity (25/25°C)		0.889
Liquid density @ 20°C	g/cm <sup>3</sup> (lb/gal)	0.888 (7.41)
Vapor density (air = 1)		5

**Typical Physical Properties:**

This data provided for those properties are typical values, and should not be construed as sales specifications.

## Typical Physical Properties (Cont.)

Property	Unit	Value
Viscosity (@ 25°C)	cP or mPa•s	4.5
Surface tension (@ 20°C)	dynes/cm or mN/m	27.7 (neat product) 27.1 (25% aq. Sol'n)
Specific heat (@ 25°C)	J/g/°C	2.296
Heat of vaporization at normal boiling point	J/g	342.76
Net heat of combustion — predicted @ 25°C	kJ/g	32.6
Autoignition temperature	°C (°F)	225 (437)
Evaporation rate (n-butyl acetate = 1.0)		< 0.01
Solubility, g/L or % @ 25°C		
Solvent in water	g/L	9.46
Hansen solubility parameters	(J/cm <sup>3</sup> ) <sup>1/2</sup>	
<sub>d</sub> (dispersion)		16.2
<sub>p</sub> (polar)		5.5
<sub>h</sub> (hydrogen bonding)		9.0
Partition coefficient, n-octanol/water	log Pow	1.97
Flammable limits	vol.% in air	
Lower		1.4
Upper		9.0

## Classification/ Registry Numbers/Country Inventory<sup>1</sup>.

CAS#	112-25-4
AICS (Australia)	112-25-4
DSL (Canada)	112-25-4
IECSC (China)	112-25-4
ECI (Korea)	112-25-4/KE-13669
EINECS (EU)	203-951-1
MITI (Japan)	112-25-4
ENCS/IHSL (Japan)	2-2424
NZIoC (New Zealand)	112-25-4
PICCS (Philippines)	112-25-4
TSCA (U.S.)	112-25-4

<sup>1</sup>NOTE: Classifications apply only to this glycol ether product. It is the responsibility of the formulator to ensure that the final finished product complies with the regulations of a given country prior to its sale or distribution in that country.

## How Supplied

REGION	PACKAGING	TRANSPORT MODE
Europe/Africa	Bulk/Drum	Tank Truck
Latin America	Drum	Not Applicable
North America	Bulk/Drum	Tank Truck/Tank Car
Pacific	Bulk/Drum	Tank Truck

## Product Stewardship

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