SOLVENT SYSTEMS International, Inc.
Environmental Services

Offer Sheet

Product	Methotate solvent
Quantity	149 drums x 190kg
Net weight	62,425 lbs.
Manufacture date	
Availability	One time
Location	Bedford Park, IL 60499
Date	10/29/25
COA & SDS	Attached below

1. **Paints & coatings**
   - Used in architectural, industrial and automotive coating systems where regulations demand reduced VOCs and HAPs.
   - Helps improve drying characteristics and film formation while offering fewer emissions compared to higher-volatility solvents.
   - Substitutes for typical glycol ether-acetates (e.g., EP, EEP) or cellosolve acetates in certain formulations.
2. **Adhesives and sealants**
   - Utilized as a carrier/solvent in adhesive and sealant systems where good solvation of resins is needed along with relatively slower evaporation than fast solvents.
   - Offers an option for formulations needing moderate drying rate, good substrate wet-out, and regulatory compliance.
3. **Specialty coatings / finishing operations**
   - In industrial finishing (metal, wood, plastic substrates) where reduced odor, lower emissions, and improved worker environment are important, Methotate is used as a solvent component.
   - Also useful in low-VOC clear coats, inks, and specialty surface-treatment liquids.
4. **Formulation replacement / regulatory upgrade**
   - Because it has relatively lower vapour pressure and lower flammability hazard compared to some conventional solvents, it is often leveraged by formulators to meet stricter air-quality, workplace and safety standards.

If interested, please call or text:

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Solvent Systems International
70 King St.
Elk Grove Village, IL 60007
847-323-6718 call or text
Click here for: Surplus Inventory
Solvent-Systems.com

Methotate (Propylene Glycol Monomethyl Ether Propionate)

CAS Number 148462-57-1
RCT Product Number:

Date: 12/17/24
Lot Number: SC12106/24
Date of Manufacture: 12/17/24

Certificate of Analysis

Test	Specification	Result
Purity, %	99.5 min	99.84
Appearance	Free & Clear	Pass
Specific Gravity, 20 °C	0.945 – 0.955	0.9505
Acidity, as acetic acid, %	0.02 max	0.0063
Color, APHA	10 max	5
Water, %	0.05 max	0.01
Non-Volatile Matter, %	0.01 max	0.001
Distillation, Initial, °C	157	158.4
Distillation, Dry °C	167	162.1

Methotate

HAPs Free Solvent

Propylene Glycol Mono Methyl Ether Propionate

Non HAPs
Low Toxicity
Low Odor
Safe Alternative

Methotate Specifications

Item	**Unit**	**Specification**
Appearance		Free From Insoluble and Haze
Specific Gravity	20/20 deg C (g/cm^3)	0.945 - 0.955
Acidity	wt % as Acetic Acid, Max.	0.02
Purity	wt %, Min.	99.5
Water Content	wt %, Max.	0.1
Viscosity	cps @ 20 deg C	1.2
Non-Volatile Matter	g/100ml, Max.	0.01
Distillation	Initial, deg C	157
	Dry, deg C	167
Color	APHA, Max.	10

Methotate Physical Properties

Item	**Methotate**
Molecular Formula	$CH_3\ CH_2COOCH(CH_3)\ CH_2\ OCH_3$
Molecular Weight	146
Specific Gravity, 20/20 deg C	0.95
Boiling Point, 760 mm Hg (deg C)	160
Freezing Point (deg C)	< - 50.0
Flash Point (deg C)	56
Flame Point (deg C)	360
Viscosity @ 20 deg C (cps)	1.2
Evaporation Rate (NBAC = 100)	19
Vapor Pressure, mm Hg, @ 20 deg C	0.9

Comparison

Item	**Methotate**	**CAC**	**PMA**	**MAC**	**EEP**
Chemical Name	Propylene Glycol Mono Methyl Ether Propionate	Ethylene Glycol Mono Ethyl Ether Acetate	Propylene Glycol Mono Methyl Ether Acetate	3-Methoxy Butyl Acetate	3-Ethoxy Ethyl Propionate
Molecular Weight, g/mol	146	132.2	132.2	146.2	146.2
Boiling Point, deg C	160	156.4	145.5	171	170.1
Flash Point, deg C	56	57.5	45	60	58
Solubility, ml*	20	21	16	13	15
Detergency (cycle) *	9	8	10	9	11
Drying, min.*	27	21	14	35	40
Evaporation Rate **	19	21	34	14	12

** NBAC = 100 for reference (NBAC = n Butyl Acetate)

* Solubility Test
Paint : Solvent (Sample + Toluene 9) = 2 : 1 which is titrated by n-Hexane

* Detergency Test
Test Procedure is as follows

1. Plate is dipped in paint of polyurethane resin.
2. Take out plate to dry for 1 min. in air.
3. Dip the plate in solvent for 30 seconds.
4. Take out plate and dry for 30 seconds in air.
5. One cycle from procedure 2 to 4.
6. Repeat procedure 2 to 4 until paint is peeled off.

*Drying Test
Paint (polyurethane) : Solvent 2 : 1 which is coated on the plate. The drying time is measured by finger contact.

Toxicity Comparison

Toxicity Test	**Methotate**	**CAC**	**PMA**
Chemical Name	Propylene Glycol Mono Methyl Ether Propionate	Ethylene Glycol Mono Ethyl Ether Acetate	Propylene Glycol Mono Methyl Ether Acetate
Oral LD_{50} (g/kg)	> 12.0	2.9 - 3.9	8.5 - 10.0
Dermal LD_{50} (g/kg)	> 12.0	10.3	> 5.0
Inhalation LC 50 ppm	> 6,072	> 2,000	> 4,350

Specific Gravity Comparison

Item	**Methotate**	**CAC**	**PMA**	**MAC**	**EEP**
Specific Gravity, 20/20 deg C	0.95	0.975	0.968	0.956	0.95

Hansen Solubility

	SP_o	SP_d	SP_p	SP_h
Methotate	9.1	7.4	2.3	4.7
MEK	9.3	7.8	4.4	2.5
MIBK	8.3	7.5	3	2
Acetone	9.8	7.6	5.1	3.4
Isophorone	9.7	8.1	4	3.6
PM Acetate	9.6	8.9	1.8	3
EEP	10.2	7.9	4.5	4.6
Cellosolve Acetate	9.6	7.8	2.3	5.2
Ethyl Acetate	8.9	7.7	2.6	3.5
Butyl Acetate	8.5	7.7	1.8	3.1

Methotate Regulatory Information

CAS Number 148462-57-1

US EPA has issued a Pre Manufacturing Notice Number with no restrictions.

Methotate is listed on the TSCA Chemical Substance Inventory as an approved new substance.

No reporting by consumers of Methotate will be required as per SARA Title III Sec 313.

Methotate is a Volatile Organic Compound, but not a Hazardous Air Pollutant.

Methotate is not regulated by Rule 66.

Customs identification under Hazardous Tariff Schedule # 2915.50.5000

DOT Shipping Information: Flammable Liquid N.O.S., 3, UN1993, PGIII

Methotate

Applications:

* Solvent of Paint & Thinner
* Raw Material of Synthesis Resin
* Solvent of Ink
* Cleaner
* Peeling Agent
* Textile and Leather Dyeing
* Solvent for Fine Chemicals