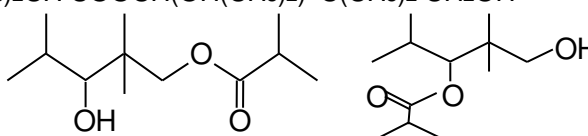


Trade name	KYOWANOL M
Chemical Name	2,2,4-TRIMETHYL-1,3-PENTANEDIOLMONOISOBUTYRATE
Chemical Structure	$(\text{CH}_3)_2\text{CHCH}(\text{OH})\text{C}(\text{CH}_3)_2\text{CH}_2\text{OC}(\text{O})\text{CH}(\text{CH}_3)_2$ $(\text{CH}_3)_2\text{CH COOCH}(\text{OH}(\text{CH}_3)_2) \cdot \text{C}(\text{CH}_3)_2 \text{CH}_2\text{OH}$ 
Molecular Formula	C ₁₂ H ₂₄ O ₃
Molecular Weight	216.3
CAS RN [®]	25265-77-4
EINECS No.	246-771-9
TSCA	On Inventory

Specification	Item	Unit	Specification
	Appearance		Clear Liquid
	Color	APHA	10 max.
	Specific Gravity (20/20°C)		0.946 – 0.951
	Purity	Wt %	99.0 min.
	Water Content	Wt %	0.1 max.
	Acid Value	KOHmg/g	0.50 max.

Physical Property	Item	Unit	
	Boiling Point	°C	253
	Specific Gravity (20/20°C)		0.950
	Melting Point	°C	<-57
	Refractive Index (n _D ²⁰)		1.440
	Viscosity (20°C)	mPa·s	16.2
	Flash Point (open cup)	°C	120
	Vapor Density (Air=1)	°C	7.45
	Explosion Limits	Vol%	0.6 – 4.2
	Ignition Point	°C	390
	Solubility (in Water 20°C)	g/100g	Insoluble
	Specific Heat (30°C)	J/mol·K	449.9
	Surface Tension (25°C)	N/cm	2.9 × 10 ⁻⁴

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Applications	Coalescing agent for emulsion paints and latex paints Additives for paper treatment agents, Plasticizers			
Health Hazards	Acute toxicity data on KYOWANOL - M			
	Acute Toxicity	LD50(oral)	rat	>3.2g/Kg
Emergency and First Aid Procedure	1)Skin Contact	Remove contaminated clothing. Wash the affected area with plenty of clean water and soap. If irritation develops, see a physician.		
	2)Eye Contact	Flash eyes with plenty of clean water for at least 15 minutes while holding eyelids open. If irritation develops, see a physician.		
	3)Inhalation	If a large amount is inhaled, remove individual(s) to fresh air.		
Storage	Tighten the cap of container and store in a cool, dry, well-ventilated, storage area of cabinet.			
Extinguishing Media	Water spray, Dry chemicals, Protein type air foams or carbon dioxide.			
Packing	190Kg 20MT	Iron drum ISO-Container		

KH Neochem Co., Ltd.

2-3-1, Nihonbashi-Muromachi,
Chuo-ku, Tokyo, 103-0022, Japan
Tel: +81-3-3510-3552
Fax: +81-3-3510-3571

KH Neochem Americas, Inc.

1515 East Woodfield Road, Suite 710,
Schaumburg, IL 60173, USA
Tel: +1-847-517-8800
Fax: +1-847-517-8830

Shanghai Seika Trading Co., Ltd.

Room 1116, Bldg. B,
Far East International Plaza, No. 317
Xianxia Rd. Changning District,
Shanghai, 200051, China
Tel: +86-21-5208-0009
Fax: +86-21-5208-0130

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