

**SAFETY DATA SHEET (SDS)**

**Medium Oil Alkyd 31V50**

**MSDS Preparation date 27/01/2024**

Section 1. Identification	
<b>Product identifier</b>	Medium Oil Alkyd 31V50
<b>Other means of identification</b>	Vegetable oil /Vegetable oil fatty acids modified. MOA.
<b>Recommended use and restrictions on use</b>	For laboratory and Industrial use only
<b>Initial supplier identifier</b>	Newell Polymers, 7743, Ohio River Boulevard, New Cumberland, WV 26047, USA Tel: 304 387 3554 / Fax: 304 387 3249
<b>Emergency telephone number/restriction on use</b>	Canada – CANUTEC 24-hour# 304 387 3554 CHEMTREC: 1-800-424-900
Section 2. Hazards Identification	
<p><b>EMERGENCY OVERVIEW:</b> Flammable liquid and vapor. Avoid eye contact with vapor, spray, or mist. Avoid skin contact. Avoid breathing vapors. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Harmful if swallowed. Also harmful by inhalation and in contact with skin.</p> <p><b>GHS Classification</b> Flammable liquids-Category-2 Carcinogenicity-Category-2 Specific target organ toxicity (repeated exposure)-Category-1 Chronic aquatic toxicity-Category-3</p> <p><b>Labeling:</b></p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p><b>Signal Word</b> Warning.</p> <p><b>Possible Hazards</b> 6% of the mixture consists of ingredient(s) of unknown acute toxicity.</p> <p><b>GHS HAZARD STATEMENTS</b></p>	

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H225-Highly flammable liquid and vapor.  
H304-May be fatal if swallowed and enters airways.  
H332 -Acute Toxicity, Inhalation, category 4.  
H226 -Flammable Liquid, category 3.  
Suspected of causing cancer-H351.

**Causes damage to organs through prolonged or repeated exposure.**  
**H372 Harmful to aquatic life with long-lasting effects-H412.**

#### GHS LABEL PRECAUTIONARY STATEMENTS

P202-Do not handle until all safety precautions have been read and understood.  
P210-Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P233-Keep container tightly closed.  
P261-Avoid breathing dust/fume/gas/mist/vapours/spray.  
P271-Use only outdoors or in a well-ventilated area.  
P280-Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340  
IF INHALED-Remove person to fresh air and keep comfortable for breathing.  
P312-Call a POISON CENTER or doctor/physician if you feel unwell.  
P370+P378-In case of fire: Use dry chemical, foam, water spray to extinguish.  
P403+P235-Store in a well-ventilated place. Keep cool.  
P501-Dispose of contents/container in accordance with local/ regional national/international regulations.

#### GHS SDS PRECAUTIONARY STATEMENTS

P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.

#### 3. Composition/Information on Ingredients

Component	Common name	Cas No	Weight %	Status
Alkyd Resin		Proprietary	49-51	Not Hazardous
VM&P Naphtha		672-89-8	46-49	Hazardous
Xylene	Xylol	1330-20-7	1-3	Hazardous
Ethylbenzene		100-41-4	0.2-0.5	Hazardous

This material is Hazardous by definition of Hazard Communication Standard (29CFR 1910.1200).

#### 4. First-aid measures

**EYES:** Flush eyes thoroughly with water for 15 minutes. Consult physician if irritation persists.

**SKIN:** Remove contaminated clothing and shoes. Wash affected area with soap and water. Do not reuse contaminated clothing without laundering. Consult physician if irritation persists.

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**INGESTION:** Do not induce vomiting. Consult physician immediately.

**INHALATION:** Remove victims to fresh air. Get medical assistance immediately. May cause chemical pneumonia if aspirated. Administer oxygen if there is difficulty breathing. Administer artificial respiration if not breathing.

**NOTE TO PHYSICIANS:**

Do not induce vomiting. Because rapid absorption may occur through the lungs if aspirated, the decision of whether to induce vomiting should be made by a physician. If lavage is performed, suggest endotracheal and/or Esophagal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Remove contaminated clothing and wash affected areas with soap and water. treat burns as thermal burns. Treatment based upon judgement of the physician in response to the reactions of the patient.

**Section 5. Fire Fighting measures**

**Flammable properties:**

**Flash Point:**

**Class II Combustible Liquid:**

°C/°F (42.22-108) Method TCC.

**Autoignition Temperature:**

°C/°F (320-608).

Containers of this material may build up pressure if exposed to heat (fire). See firefighting measures below.

**FLAMMABLE LIMITS:**

Lower Flammable limit: 6.0%.

Upper Flammable limit: 1.2%.

Hot vapors are heavier than air and very flammable. Vapors may travel considerable distances to ignition sources and cause flash fires or explosions.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon dioxide, carbon monoxide, and other toxic fumes of incomplete combustion. During a fire, smoke may contain mists of the original material.

**EXTINGUISHING MEDIA:** Carbon dioxide, foam or dry chemical. Water fog or fine spray; water may be ineffective. General purpose synthetic foams or protein foams are preferred.

**FIRE FIGHTING INSTRUCTIONS:** Releases flammable vapors below normal ambient temperatures. Use water spray to cool fire exposed containers, protect personnel, and disperse vapors and spills. Drive and collect water due to potential environmental damage and spread of fire with product carried across water surface. Use self-contained breathing apparatus and fight fire from safe distance due to

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explosion potential.

**UNUSUAL HEALTH HAZARDS ASSOCIATED WITH FIRE:** Closed containers of alkyd resin may build up explosive pressures when exposed to the heat of fires. Cool exposed containers with water spray.

#### Section 6. Accidental Release Measures

Combustible Liquid. Release causes immediate fire/explosion hazard.

**SMALL SPILL:** Absorb spill with an inert material (dry sand) and place in chemical waste container for disposal (see section 13). Do not use reactive absorbents.

**LARGE SPILL: (on land):** Remove all sparking devices and ignition sources. Contain spilled liquid with dikes of earth. Pump water into the diked area and collect product from the top of water. Dispose of hydrocarbon laden water accordingly. Use oil spill collection pads and booms to contain runoff and seepage from diked areas.

**SPILLS INTO WATERWAYS:** Contain spill with oil booms and recover product by vacuum truck or oil collection pads.

#### Section 7. Handling and Storage

**HANDLING:** Avoid contact with the eyes. Avoid prolonged or repeated contact with skin. Keep containers tightly closed and use in well-ventilated areas. Avoid prolonged or repeated breathing of vapors. Use grounding and bonding connections when transferring material to prevent static discharge, fire or explosion. Use spark proof tools and explosion proof equipment.

Empty containers may contain vapor. Do not cut, drill, grind or weld on containers unless flushed clear of all products.

**STORAGE:** Keep containers closed when not in use. Store in a cool, well-ventilated area away from incompatible materials.

#### Section 8. Exposure Controls/ Personal Protection

**ENGINEERING CONTROLS:** Use local ventilation to maintain airborne concentrations Below exposure limits. Use only with adequate ventilation.

**RESPIRATORY PROTECTION:** for operations where inhalation exposure may occur, a NIOSH approved air purifying respirator with organic vapor cartridge(s) or canister may be permissible. Protection provided by air purifying respirators is limited. Use a positive-pressure air-supplied respirator if there is any potential for uncontrolled release or any other circumstances where air-purifying respirators may not provide adequate protection.

**SKIN PROTECTION:** When contact may occur, use protective clothing and gloves impervious to hydrocarbon materials. Use of specific items such as face shield, apron, gloves, boots or body suit is

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dependent upon operation. Wash hands thoroughly before eating, drinking or smoking.

**EYE PROTECTION:** Use safety glasses when handling small amounts. When splashing may occur use chemical splash goggles and face shield. If vapors can cause eye discomfort, use a full face, supplied-air respirator.

#### Section 9. Physical and chemical properties

PROPERTIES	SPECIFICATIONS
Appearance	Amber Yellow liquid
Odor	Mild Petroleum
Odor Threshold	Not available
Color (Gardner scale) Max	9
Non-volatiles (Solids) %	50+/-1
Non-volatiles (Volume) %	40.5+/-1
Viscosity Stokes °C/°F (25-77)	27.3-46.2
Solvent	Exempt VM&P Naphtha
Flash Point (SETA) °C/°F	(12.77-55)
Weight per Gallon °C/°F (25-77)	8.0 +/-0.5
Solubility	Insoluble
VOC content gms/l (product as Supplied)	455

#### Section 10. Stability and Reactivity

**Chemical Stability:**

Stable at normal temperatures and storage conditions.

**Conditions to Avoid:**

Keep away from open flames, hot surfaces and sources of ignition, contamination.

**Incompatibility:**

Avoid contact with strong oxidizing agents.

**Hazardous Decomposition Products:**

Thermal decomposition may form carbon monoxide, carbon dioxide and various hydrocarbons.

**Hazardous Polymerization:**

Will not occur.

#### Section 11. Toxicological Information

**Information on likely routes of exposure:**

**Primary routes of Entry;** Skin Contact, Ingestion, Inhalation, Eye contact, Skin absorption.

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**Acute Toxicity**

**VM&P Naphtha**

**Inhalation LC50** >3400 ppm (rat)

**Xylene**

**Oral LD50** =4300 mg/kg (Rat)

**Dermal LD50** >1700 mg/kg (Rabbit)

**Ethylbenzene**

**Oral LD50** 3500 mg/kg/ (Rat)

**Deermal LD50** =15354 mg/kg (Rabbit)

**Information on toxicological effects**

**Symptoms:**

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Eyes:**

Contact with eyes may cause irritation.

**Skin:**

Contact causes skin irritation. Repeated exposure may cause skin dryness or cracking. Can be absorbed through skin.

**Inhalation:**

Inhalation of vapors in high concentration may cause irritation of respiratory system.

Inhalation of high vapor concentrations can cause CNS-depression and narcosis.

**Ingestions:**

Ingestion (swallowing) may irritate the mouth, throat and stomach. Ingestion is not an anticipated route of exposure for this material in industrial use.

**Sensitization:**

No information available.

**Repeated dose toxicity:**

Repeated overexposure to xylene via the inhalation route has caused a hearing loss in laboratory animals.

**Mutagenicity effects:**

No information available.

**Carcinogenicity:**

**Xylene**

**ACGIH** Group A4-Not classifiable as a Human carcinogen.

**Ethylbenzene**

**IARC** Group 2B-Possibly Carcinogenic to Humans.

**Legend:**

ACGIH (American Conference of Governmental Industrial Hygienists) IARC-International Agency for Research on Cancer.



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**Reproductive Toxicity:**

No information available.

**Developmental Toxicity:**

High exposures to xylene in some animal studies have been reported to cause health defects on the developing embryo/fetus. The significance of these findings to humans has not been determined. Ethylbenzene has been shown to be fetotoxic in laboratory animals at maternally toxic levels.

**Neurological Effects:**

No information available.

**STOT- single exposure:**

No information available.

**STOT- repeated exposure:**

No information available.

**Target organs(s):**

Central nervous system (CNS), kidney, liver, eyes.

**Aspirational Hazard:**

No information available.

**Unknown Acute Toxicity:**

55.9% of mixture consists of ingredients of unknown toxicity.

**Section 12. Ecological information**

**VM&Naphtha**

Freshwater Algae	EX50- 4700 mg/L (Pseudokirchneriella subcapitata) (92h)
Xylene	
Log Kow	2,77-3.15
Bioconcentration factor (BCF)	0.6-15
Algae	EC50= 11mg/L (Pseudokirchneriella subcapitata) (72h)
Fish	LC50- 13.4 mg/L (Pimephales promelas) (96 h) flow-through LC50 2.661-4.093 mg/L (Onocorhynchus mykiss) (96h) static LC50 13.5-17.3 mg/L (Onocorhynchus mykiss) (96h) LC50 13.1-16.5 mg/L (Lepomis macrochirus) (96h) flow-through LC50= 19 mg/L Lepomis macrochirus) (96h) LC50- 7.711-9.591 mg/L (Lepomis macrochirus) (96h) static LC50- 23.53-29.97 mg/L (Pimephales promelas) (96h) static LC50-780 mg/L (Cyprinus carpio) (96h) semi-static LC50>780 mg/L (Cyprinus carpio) (96h) LC50>30.26-40.75 mg/L (Poecilia reticulata) (96h) static EC60= 3.82 mg/L 48h LC50=0.6 mg/L 48 h
Water flea	
<b>Ethylbenzene</b>	
Log Kow	3.118

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Bioconcentration factor (BCF)	15 Fish
Algae	EC50= 4.6mg/L (Pseudokirchneriella subcapitata) (72h) EC50= 2.6-11.3 mg/L (Pseudokirchneriella subcapitata) (72h)
Fish	EC50= 11.0 mg/L (Pseudokirchneriella subcapitata) (72h) LC50 11-18.0 mg/L (Onocorhynchus mykiss) (96h) static LC50 4.2 mg/L (Onocorhynchus mykiss) (96h) semi static LC50- 7.55-11.0 mg/L (Pimephales promelas (96h) flow-through LC50= 32 mg/L Lepomis macrochirus) (96h) static LC50- 9.1-15.6 mg/L (Pimephales promelas (96h) static LC50= 9.6 mg/L (Poecilia reticulata) (96h) static
Water Flea	EC50 1.8-2.4 mg/L 48h
<b>Unknown aquatic toxicity</b> 61.2% of the mixture consists of components(s) of unknown hazards to the aquatic environment.	
<b>Persistence and degradability</b> The total of the organic components contained in the product is not classified as “readily biodegradable” (OECD-301 A-F). However, this product is expected to be inherently biodegradable.	
<b>Bio-accumulative potential</b> There is no evidence to suggest bioaccumulation will occur.	
<b>Mobility</b> Accidental spillage may lead to penetration in the soil and groundwater. However, there is no evidence that this would cause adverse ecological effects.	
<b>Other adverse effects</b> No information available.	
<b>Section 13. Disposal Information</b>	
<b>Waste Disposal Method</b> Hazardous waste. Can be incinerated, when in compliance with local regulations.	
<b>Contaminated Packaging</b> Empty containers should be taken for local recycling, recovery or waste disposal.	
<b>US EPA waste Number</b> D001 (Ignitable): When discarded in its purchased form, this material would be regulated under 40 CFR 261.21 as EPA Hazardous Waste Number D001 based on the characteristic of ignitability.	
<b>Section 14. Transport Information</b>	

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#### DOT

<b>UN No</b>	UN1856
<b>Proper Shipping Name</b>	RESIN SOLUTION
<b>Hazard Class</b>	3
<b>Packaging Group</b>	II
<b>NAERG</b>	127

#### TDG

<b>UN No</b>	UN3256
<b>Proper Shipping Name</b>	ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S.
<b>Hazard Class</b>	CLASS 3
<b>Packaging Group</b>	PG II
<b>NAERG</b>	127

#### IATA

<b>UN No</b>	UN1866
<b>Proper Shipping Name</b>	RESIN SOLUTION
<b>Hazard Class</b>	3
<b>Packaging Group</b>	353, 364
<b>NAERG</b>	127

#### IMDG/IMO

<b>UN No</b>	UN1866
<b>Proper Shipping Name</b>	RESIN SOLUTION
<b>Hazard Class</b>	3
<b>Packaging Group</b>	PG II
<b>NAERG</b>	F-E, S-E

#### Section 15. Regulatory information

##### International Inventories

##### TSCA Inventory Status

All components of this material are listed on the US Toxic Substances Control Act (TSCS) Inventory.

##### Canadian Inventory Status

All components of this material are listed on the Canadian Domestic Substances List (DSL).

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#### **Australian Inventory Status**

This product contains one or more chemicals which are not currently listed on the Australian inventory of Chemical Substances.

#### **Korean Inventory Status**

This product contains only chemicals which are currently listed on the Korean Chemical Substances list.

#### **Philippine Inventory**

This product contains one or more chemicals which are not currently listed on the Philippine inventory of Chemical and Chemicals Substances.

#### **Japan ENCS**

This product contains one or more chemicals which are not currently listed on the Japan inventory of Existing and new Chemical Substances.

#### **Chinese IECS**

This product contains one or more chemicals which are not currently listed on the Chinese inventory of Chemical Substances.

#### **New Zealand Inventory**

This product contains only chemicals which are currently listed on the New Zealand Inventory of Chemicals.

#### **US Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code Federal Regulations, Part 372:

<b>Component</b>	<b>Cas No</b>	<b>Weight %</b>	<b>SARA 313 Status</b>
Xylene	1330-20-7	1-3	Listed
Ethylbenzene	100-41-4	0.2-0.5	Listed

#### **SARA 313 /312 Status Hazardous Categorization**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	Yes
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard.</b>	No

#### **TSCA 12(b)-export Notification:**

This material does not contain any components that are subject to the US Toxic Substances Control Act

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(TSCA) Section 129b) Export Notification requirements.

#### Clean Water Act

This product contains the following listed substances:

Component	CWA-Reportable Quantities	CWA-Toxic Pollutants	CWA-priority	CWA Hazard
Xylene 1330-20-7	100 lb			Listed
Ethylbenzene 100-41-4	1000 lb	Listed	1X	Listed

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs.

Component	CAS No	Weight %	HAPS Data
Xylene	1330-20-7	1-3	Listed
Ethylbenzene	100-41-4	0.2-0.5	Listed

#### CERCLA

This product contains the following reportable quantities:

Component	40 CFR 302.4 RQ	40 CFR EHS TPQs
Xylene	100 lb, 45.4 Kg	
Ethylbenzene	1000 lb, 454 Kg	

#### State Regulations:

##### California Proposition 65

Warning: This material contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. The California Safe Drinking Water and Toxic Enforcement Act of 1966 requires that clear and reasonable warn be given prior to exposing any person to this chemical.

##### Canada

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

#### Section 16. Other information

##### Disclaimer:

Information provided in this Safety Data Sheet is correct to the best knowledge and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with other materials or in any process, unless specified in the text.

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