


## SAFETY DATA SHEET

### 1. IDENTIFICATION

	Kenrich Petrochemicals, Inc. Safety Data Sheet according to OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)
<b>Product identifier</b>	KEN-REACT® KR® 46B
<b>Product code</b>	KR46BT425
<b>Version #</b>	02
<b>Issue date</b>	April 7, 2020
<b>Chemical description</b>	Organotitanate substance
<b>Recommended use</b>	Polymer additive, Professional Use Only
<b>Recommended restrictions</b>	Not for commercial use
<b>Manufacturer information</b>	Kenrich Petrochemicals, Inc. PO Box 32 Bayonne, NJ 07002 USA Email: customerservice@4kenrich.com Telephone number: +1- 201-823-9000 Toll Free USA: 1-866-KENRICH
<b>Emergency Telephone Number</b>	Kenrich Petrochemicals, Inc. Tel: 201-823-9000 Chemtrec emergency number : Tel: 703-527-3887
<b>SDS number</b>	

### 2. HAZARDS IDENTIFICATION

<b>Physical hazards</b>	Flammable liquid category 4.
<b>Health hazards</b>	Skin Irritation Category 2 Eye Irritation Category 2
<b>Environmental hazards</b>	Not classified.
<b>Label information Pictogram</b>	
<b>Signal Word</b>	Warning
<b>Hazard statement</b>	H227 Combustible Liquid H315 Causes skin irritation. H319 Causes serious eye irritation.
<b>Precautionary Statements Prevention</b>	P210 Keep away from flames and hot surfaces. – No smoking. P264 Wash hands thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary Statements Response</b>	P302 + P352 If on skin wash with plenty of soap and water. P305 + P351 + P338 If in eye rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P332 + P313 If skin irritation occurs: Get medical advice/attention. P337 + P313 If eye irritation or rash occurs: Get medical advice/attention. P362 + P364 Take off contaminated clothing and wash it before reuse P370 + P378 In case of fire use dry chemical, CO <sub>2</sub> , water spray, fog, or foam for extinction.
<b>Precautionary Statements Storage</b>	P403 Store in a well-ventilated place.
<b>Disposal</b>	P501 Dispose of waste and residues in accordance with local authority requirements.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Weight %	Classification
dihydrogen bis(ditridecyl phosphito-O")tetrakis(octan-1-olato)titanate(2-), branched and linear	68585-68-2	>98	Skin Irritation: category 2 Eye Irritation: category 2
Isopropyl alcohol	67-63-0	<2	Flammable liquid category 2 Eye Irritation: category 2 Specific Target Organ Toxicity, Single Exposure, category 3

### 4. FIRST AID MEASURES

Measures	Safety implementation
<b>First aid procedures</b>	
<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin</b>	Remove contaminated clothing. Wash with soap and water. Get medical attention if irritation develops and persists.
<b>Eye</b>	Flush eyes thoroughly with water for at least 15 minutes. Get medical attention if irritation develops or persists.
<b>Oral exposure /Ingestion</b>	In case of oral exposure rinse mouth for at least 15 minutes. For chemical ingestion seek medical attention.
<b>Notes to physician</b>	Treat symptomatically.
<b>General advice</b>	Get medical attention if any discomfort develops.

### 5. FIRE FIGHTING MEASURES

<b>Personal precautions, protective equipment</b>	Remove all sources of ignition. Use personal protective equipment
<b>Suitable extinguishing media</b>	Dry chemical, CO2, water spray, fog, or foam.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	By heating and fire, toxic vapors/gases may be formed.
<b>Protective equipment and precautions for firefighters</b>	Move containers from fire area if you can do it without risk. Use water spray to cool unopened containers. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Ensure adequate ventilation. For personal protection, see section 8 of the SDS.
<b>Environmental precautions</b>	Do not allow to enter drains, sewers or watercourses.
<b>Methods for containment</b>	Stop leak if you can do so without risk. Dike the spilled material, where this is possible.
<b>Release Measures</b>	Keep away from open flames, hot surfaces and sources of ignition.
<b>Methods for cleaning up</b>	Small Spills: Absorb spillage with non-combustible, absorbent material. Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Wash area with soap and water.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with eyes and prolonged skin contact. Wash hands after contact. Observe good industrial hygiene practices.
<b>Storage</b>	Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible materials. Keep away from heat and sources of ignition.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	CAS RN	ACGIH TLV	OSHA PEL	NIOSH IDLH
dihydrogen bis(ditridecyl phosphito-O")tetrakis(octan-1-olato)titanate(2-), branched and linear	68585-68-2	STEL: Not classified TWA: Not classified	STEL: Not classified TWA: Not classified	
Isopropyl alcohol	67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m <sup>3</sup> (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m <sup>3</sup>	IDLH: 2000 ppm 10 % LEL TWA: 980 mg/m <sup>3</sup> TWA: 400 ppm STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>

<b>Recommended monitoring procedures</b>	Follow standard monitoring procedures.
<b>Engineering controls Personal protective equipment</b>	Provide adequate ventilation and minimize the risk of inhalation of vapors and mists.
<b>Eye/face protection</b>	Wear safety glasses, if risk of splashing, wear safety goggles or face shield.
<b>Skin protection</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. Seek advice from local supervisor.
<b>Hand protection</b>	Use impervious gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Values/ Data
<b>Appearance</b>	Liquid
<b>Physical state</b>	Liquid
<b>Color</b>	yellow
<b>Odor</b>	Alcoholic/phosphite
<b>Odor threshold</b>	Not available.
<b>pH</b>	5.5
<b>Melting point/Freezing point</b>	Not available
<b>Boiling point</b>	71 °C (160 °F)
<b>Flash point</b>	>79 °C (>175 °F)
<b>Evaporation rate</b> (relative to n-butyl acetate)	slower
<b>Flammability (solid, gas)</b>	Not available.
<b>Flammability limits in air, lower % by volume</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b> (relative to water @ 60°F)	0.93
<b>Solubility (H2O)</b>	Insoluble.
<b>Solubility to other solvents</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity @ 77 °F</b>	60 cps

## 10. STABILITY AND REACTIVITY

<b>Chemical stability</b>	Stable at normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Contact with incompatible materials. Ignition sources.
<b>Incompatible materials</b>	Oxidizing agents. Alkaline materials.
<b>Hazardous decomposition products</b>	Oxides of carbon, phosphorous.

## 11. TOXICOLOGICAL INFORMATION

Toxicological data	Test Results
<b>Product</b>	LD50 > 5g/kg Skin Irritation: category 2 Eye Irritation: category 2 Ames test negative
<b>Components</b>	Test Results
Isopropyl alcohol	Eye Irritation: category 2 STOT SE 3 Inhalation may cause drowsiness
<b>Other data</b>	No other specific acute or chronic health impact noted.
<b>Routes of Exposure</b>	Eye contact, Skin contact, Inhalation.

## 12. ECOLOGICAL INFORMATION

<b>Product data</b>	No data available
<b>Component data</b>	No data available
<b>Mobility</b>	The product is insoluble in water.
<b>Environmental effects</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal methods</b>	Dispose in accordance with all applicable regulations.
<b>Waste from residues unused products</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Dispose of in accordance with local regulations.

## 14. TRANSPORT INFORMATION

<b>IATA</b>	Not regulated as dangerous goods.
<b>IMDG/IMO</b>	Not regulated as dangerous goods.
<b>DOT</b>	Not regulated as dangerous goods.
<b>Placard</b>	(Bulk) Combustible

## 15. REGULATORY INFORMATION

Country	Inventory List	Status
Canada	Domestic Substances List (DSL)	Listed
	Non-Domestic Substances List (NDSL)	Not listed
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Listed
	European List of Notified Chemical Substances (ELINCS)	Not Listed
United States	Toxic Substances Control Act (TSCA) Inventory	Listed
Japan	ENCS (mixture 2-2001 and 2-2150)	Listed
South Korea	ECL	Listed
Australia	AICS	Listed
Philippines	PICCS	Listed
China	IECSC	Listed
New Zealand	NZIoC	Listed

SARA 311/312	Information	Status
	Chronic health hazard	Not determined
	Acute health hazard	Irritant
	Fire hazard	Combustible liquid
	Sudden pressure	Not applicable
	Reactivity hazard	None
Section 302	Extremely hazardous ingredient	None
CERCLA	Hazardous substance	None
Section 313	Toxic chemicals	None

### U. S. State Right-to-Know Regulations

Chemical	California Prop 65	New Jersey	Massachusetts	Pennsylvania	Rhode Island
Iso-propanol	Not Listed	X	X	X	X

## 16. OTHER INFORMATION

HMIS Hazard rating: Health = 2; Fire = 2; Reactivity = 0

NFPA Hazard rating: Health = 2; Fire = 2; Reactivity = 0

UN GHS Classification	
Pictogram	GHS07
Signal Word	Warning
Hazard Statements	H227 Combustible liquid H315 Causes skin irritation. H319 Causes serious eye irritation.

#### Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.

#### Revision date

April 7, 2020