

## SDS – Keraplus 3451

### Information

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#### 1. Identification of the Substance/Preparation and the Company/Undertaking

##### 1.1 Product identifier:

<b>Product name:</b>	Keraplus 3451
<b>REACH registered name:</b>	Alkenes, C>10 $\alpha$ -, polymd.
<b>REACH registered No:</b>	Pre-registered
<b>CAS Number:</b>	68527-08-2

##### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Identified use(s): Sectors of Use:-** SU3, SU5, SU7, SU8, SU10, SU11, SU12, SU17, SU19

##### 1.3 Details of the supplier of the safety data sheet:

Kerax Limited  
Moorland Gate House  
Cowling Road  
Chorley  
Lancashire, PR6 9DR  
Telephone: +44 (0) 1257 237350

##### 1.4 Emergency telephone number: **+44 (0) 7811 262958** (24 Hours)

**Email address:** laboratory@kerax.co.uk

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#### 2. Hazards Identification

##### 2.1 Classification of the Substance or Mixture:

Does not contain any components which are hazardous according to DSD [67/548/EC] or CLP Regulation 1272/2008/EC

##### 2.2 Label Elements:

Does not require a hazard warning label in accordance with DSD [67/548/EC] or CLP Regulation 1272/2008/EC

### 2.3 Other Hazards:

- **PBT:** This product is not identified as a PBT / vPvB substance
- Hot liquid may cause thermal burns.

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## 3. Composition

**3.1 Substances:** An Alpha Olefin Polymer

**3.2 Mixtures:** N/A

CAS-No:	Substance Name	Mass % Range	EC Number	REACH Reg No
68527-08-2	Alkenes, C>10 $\alpha$ -, polymd.	100	614-571-4	-

There are no ingredients present which, within current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section in accordance with Regulation (EC) No. 1272/2008

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## 4. First aid measures

### 4.1 Description of First Aid Measures

**General Information:** Remove contaminated / saturated clothing immediately. In case of accident or illness seek medical advice immediately.

**Inhalation:** Remove the affected person to fresh air, keep warm and rest. If recovery is not rapid, obtain medical attention

**Skin Contact:** Wash the affected parts of the body with soap and water. No emergency measures are necessary but if adverse skin effects follow, refer for medical attention.

**Eye Contact:** Flush eyes immediately with fresh water for at least 5 minutes while holding the eyelids open. No emergency measures are necessary but if adverse eye effects follow, refer for medical attention.

**Ingestion:** Do not induce vomiting. No emergency measures are needed but if adverse health effects follow or large amounts are swallowed, refer for medical attention.

**Self-Protection of First Aider:** First aider, pay attention to self-protection.

### 4.2 Most important symptoms and effects, both acute and delayed

**Inhalation:** Over-heated oil can produce fumes which may be irritant when breathed in.

**Skin Contact:** May cause slight irritation to skin.

**Ingestion:** No known significant effects or critical hazards

**Eye Contact:** May cause slight irritation to eyes

### 4.3 Indication of any immediate medical attention and special treatment needed

In contact with or splashed by hot liquid:

**Skin Contact** Cool the skin immediately with cool water. Treat burns according to their severity. Obtain medical attention. Never try to remove the material with solvents.

**Contact with eyes** Cool the area immediately with cold water. Seek advice of an ophthalmologist.

**Specific Treatment:** First Aider, decontamination, treatment of symptoms.

**Notes to doctor:** Treat symptomatically.

## 5. Firefighting measures

**5.1 Extinguishing media:** Foam, dry chemical, carbon dioxide, water mist.

**5.2 Special hazards arising from the substance or mixture:** Treat the material as a solid that can burn. Moulded parts or blocks burn slowly with a low smoke density and flaming drips, carbon monoxide and irritating oxygen containing organic substances are released.

**5.3 Advice for firefighters:** Only suitably trained personnel should attempt to tackle fires. Do not stay in the danger zone without respiratory protective equipment and protective clothing. In any case of fire, carbon monoxide and/or irritating oxygen containing organic substances are released.

On fire		Extinguishing medium	Method
Processing plant	Polymer	Water/foam	Spray cooling
	Equipment	CO2	CO2 snow extinguisher
		ABC powder	ABC powder extinguisher
Storage	Bags	Water or water/foam	Spray cooling

	Bulk silo	Cooling with water	Firehose jet
Transport	Lorry/pallets	Water or water/foam	Spray cooling
	Bulk car	Water/foam	Cover fire side

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## 6. Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:** Surfaces may become slippery after spillage.

**6.2 Environmental precautions:** Water may be used to flush spills away from sources of ignition. Do not allow the product to enter public drainage system or open water courses.

**6.3 Methods and material for containment and cleaning up:** Use Sand or active clay to absorb spilled substance and remove to containers for disposal

**6.4 Reference to other Sections:** See sections 8 and 13

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## 7. Handling and storage

**7.1 Precautions for safe handling:** Avoid skin contact. Avoid inhalation of vapour, mist or fumes. Do not wear contaminated clothing. Avoid contact with the eyes – wear chemical protective goggles when handling the product. Protective clothing such as impervious gloves should be worn if skin contact is anticipated. Protective clothing should be regularly inspected and maintained, discard oil saturated leather articles. The use of barrier and after work creams may be beneficial. Wash hands after working with the material.

**7.2 Conditions for safe storage, including any incompatibilities:** Keep containers tightly closed. Avoid heat and sources of ignition. Store in original containers or in other mild steel or high density polyethylene containers which are closable and clearly labelled. Clean up any spilled material immediately - Incompatible products - Peroxides.

**7.3 Specific end use(s):** This material is formulated for various uses.

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## 8. Exposure Controls/Personal Protection

**8.1 Control Parameters:** TWA TLV 5 mg/m<sup>3</sup> (respirable). However in all circumstances exposure should be kept as low as reasonably possible by good ventilation and safe working practices.

Date Prepared: 20 April 2015

Date Revised: N/A

Version: 1.0

**DNEL Values:** - No Data Available

**PNEC Values:** - No Data Available

### 8.2 Exposure Controls:

**Appropriate engineering measures:** Facilities storing or utilising this material should be equipped with an eyewash facility.

**Respiratory protection:** Inhalation of the vapour, fumes or mists should be avoided by safe working practices and good ventilation.

**Eye protection:** Wear appropriate eye goggles.

**Skin protection:** No special precautions are needed beyond clean working conditions and safe handling practices. Change heavily contaminated clothing.

**Hand protection:** Use impervious gloves [conforming to EN374] PVC is suitable for casual contact. If direct contact for more than 2 hours then Neoprene or nitrile gloves recommended.

**8.3 Environmental Exposure Controls:** See sections 6, 7, 12 and 13

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## 9. Physical and Chemical Properties

### 9.1 Information on basic chemical and physical properties:

<b>Appearance:</b>	Liquid (at elevated temperature) Solid (at ambient temperature)
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	Not determined
<b>pH:</b>	Neutral
<b>Melting point/ Congealing point:</b>	60 - 65°C
<b>Boiling point/ range:</b>	Initial boiling point >300 °C
<b>Flash Point:</b>	> 180 °C (ASTM D92, COC)
<b>Evaporation Point:</b>	Not determined
<b>Flammability (solid, gas):</b>	May be combustible at high temperature
<b>Explosion Limits:</b>	Not determined
<b>Vapour pressure:</b>	Negligible
<b>Vapour density:</b>	Not determined
<b>Relative density (at 15°C):</b>	Not determined
<b>Solubility in water:</b>	Insoluble

Date Prepared: 20 April 2015

Date Revised: N/A

Version: 1.0

<b>Solubility in other substances:</b>	soluble only in some aromatic hydrocarbons, chlorinated hydrocarbons and/or n-paraffin's (>C14) at high temperatures.
<b>Partition coefficient n-octanol/water:</b>	Not determined
<b>Auto-ignition temperature:</b>	>200 °C
<b>Decomposition temperature:</b>	Not determined
<b>Viscosity (Kinematic, at 100°C):</b>	~400 cSt
<b>Explosive properties:</b>	Not determined
<b>Oxidizing properties:</b>	Not determined

**9.2 Other Information:** None

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## 10. Stability and Reactivity

**10.1 Reactivity:** This product is not reactive under normal storage and handling conditions (see section 7).

**10.2 Chemical stability:** Under normal storage and handling conditions, this product is stable. May react with strong oxidising agents, especially at high temperatures.

**10.3 Possibility of hazardous reactions:** No specific hazardous reactions are expected to occur.

**10.4 Conditions to avoid:** Extremes of temperature (preferably, store between 5 & 39 °C). The product is combustible when heated >300°C.

**10.5 Incompatible materials:** May react with peroxides.

**10.6 Hazardous decomposition products:** Thermal decomposition or incomplete combustion may produce carbon monoxide, nitrous gases and irritating fumes.

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## 11. Toxicological Information

### 11.1 Information on toxicological effects

#### Acute Toxicity

Acute Toxicity (oral)	LD50 >5000mg/kg – Rat
Acute Toxicity (dermal)	No data available
Acute Toxicity (inhalation)	No data available

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Date Revised: N/A

Version: 1.0

<b>Skin Corrosive / Irritation:</b>	Not Irritant
<b>Serious Eye Damage Irritation:</b>	Not Irritant
<b>Respiratory Sensitisation:</b>	None
<b>Skin Sensitisation:</b>	None
<b>Repeated Dose Toxicity:</b>	On data available
<b>Mutagenicity:</b>	None
<b>Carcinogenicity:</b>	None
<b>Reproductive Toxicity:</b>	No data available

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## 12. Ecological Information

### 12.1 Toxicity:

<b>Environmental Fate:</b>	Not established
<b>Aquatic toxicity (fish):</b>	This material is a water insoluble non-toxic solid material.
<b>Aquatic toxicity (algae):</b>	This material is a water insoluble non-toxic solid material.
<b>Aquatic toxicity (invertebrate):</b>	This material is a water insoluble non-toxic solid material.
<b>Mobility:</b>	None
<b>Biodegradation:</b>	Very low UV degradability
<b>Bioaccumulation potential:</b>	There is no indication that this material is a risk to the environment.
<b>Other Ecological information:</b>	No other adverse effects are observed. Do not allow uncontrolled leakage of product into the environment.
<b>Results of PBT and vPvB assessment:</b>	This substance does not fulfil the criteria for being classed as a PBT or vPvB substance.

### 13 Disposal Considerations

**13.1 Waste treatment methods:** Transport to authorised waste location, or incinerate under controlled conditions (EU Directives 2000/76/EC and 1999/31EC apply). European Waste Catalogue No. 050199/130899.

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### 14. Transport Information

**14.1 UN number:** Not Classified.

**14.2 UN Proper shipping name:** Not Classified

**14.3 Transport Hazard Class(es):** Not Classified

**14.4 Packing Group:** Not Classified

**14.5 Environmental Hazards:** None

**14.6 Special Precautions for user:** None

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:** Not Classified

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### 15. Regulatory Information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

<b>EU Regulations</b>	Directive 67/548/EC Regulation [EC] 1272/2008 Regulation [EC] 1907/2006
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**15.2 Chemical Safety Assessment:** The supplier has not performed a chemical safety assessment of this substance.

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## 16. Other Information

**Indication of changes:** All sections revised according to Regulation [EC] No 1272/2008 [CLP] in preparation for the 1 June 2015 deadline.

### Abbreviations & Acronyms

<b>PNEC</b>	<b>Predicted No Effect Level</b>
<b>DNEL</b>	<b>Derived No Effect Level</b>
<b>LD50</b>	<b>Median Lethal Dose</b>
<b>LC50</b>	<b>Median Lethal Concentration</b>
<b>CAS No</b>	<b>Chemical Abstract Services number</b>
<b>CLP</b>	<b>Classification Labelling and Packaging Regulation</b>
<b>ES</b>	<b>Exposure Scenario</b>
<b>EC</b>	<b>European Commission</b>
<b>EC No</b>	<b>European Chemical Number – EINECS - ELINCS</b>
<b>ECHA</b>	<b>European Chemical Agency</b>
<b>EINECS</b>	<b>European Inventory of Existing Commercial Chemical Substances</b>
<b>ELINCS</b>	<b>European List of Notified Chemical Substances.</b>
<b>NOAEL</b>	<b>No Observed Adverse Effect Level</b>

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