

Section 1. Identification

Product identifier	: Keltan ® 4455
Material Number	: 57031097
Synonym	: Ethylene-propylene-diene-rubber (EPDM)
Chemical family	: EP(D)M Rubber
Identified uses	: Rubber
Supplier/Manufacturer	: LANXESS Corporation Product Safety & Regulatory Affairs 111 RIDC Park West Drive Pittsburgh, PA 15275-1112 USA
	For information: US/Canada (800) LANXESS International +1 412 809 1000
In case of emergency	: Chemtrec (800) 424-9300 International (703) 527-3887 Lanxess Emergency Phone (800) 410-3063.

Section 2. Hazards identification

HAZCOM Standard Status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), the SDS contains valuable information critical to the safe handling and proper use of the product. The SDS should be retained and available for employees and other users of this product.
Physical state	: Solid.
Color	: Yellow. [Light]
Classification of the substance or mixture	: Not classified.
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Hazard Not Otherwise Classified (HNOC)	: None known.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Supplemental label elements	: Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink.

Section 3. Composition/information on ingredients

Substance/mixture : Polymer

The following potentially hazardous ingredient(s) are used to formulate this product. As supplied, the ingredient(s) are bound in a polymer matrix. Because they are bound in the matrix, they are not expected to create any unusual hazards when handled and processed. according to good manufacturing and industrial hygiene practices and the guidelines provided by this SDS.

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Distillates, petroleum, solvent-dewaxed heavy par affinic	30 - 36%	64742-65-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Get medical attention if thermal burns occur.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Contact with hot material will cause thermal burns.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : Reddening, itching, swelling, burning and possible permanent damage.
- Ingestion** : No specific data.

Potential chronic health effects

No known significant effects or critical hazards.

Notes to physician : Treat symptomatically. No specific treatment.

Protection of first-aiders : No special measures required.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire. In case of fire, use water spray (fog), foam or dry chemical.
- Unsuitable extinguishing media** : None known.

Specific hazards arising from the chemical : Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

Section 5. Fire-fighting measures

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- Environmental precautions** : No special measures required.
- Methods and materials for containment and cleaning up** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. If molten, allow material to cool and place into an appropriate marked container for disposal. Prevent entry into sewers, water courses, basements or confined areas.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
- Conditions for safe storage** : Do not store above the following temperature: 30°C (86°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Empty containers or liners may retain some product residues.

Section 8. Exposure controls/personal protection

Occupational exposure limits

Ingredient name	Exposure limits
Distillates, petroleum, solvent-dewaxed heavy par affinic	ACGIH TLV (United States, 4/2014). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction ACGIH TLV (United States). TWA: 5 mg/m ³ Form: Mist STEL: 10 mg/m ³ Form: Mist TWA: 5 mg/m ³ OSHA PEL (United States, 2/2013). TWA: 5 mg/m ³ 8 hours.

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Section 8. Exposure controls/personal protection

Appropriate engineering controls : Thermal processing operations should be ventilated to control gases and fumes given off during processing.

Personal protection

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Skin protection : Wear cloth work clothing including long pants and long-sleeved shirts. gloves , When handling hot material, wear heat-resistant protective gloves that are able to withstand the temperature of molten product. Suitable protective footwear.

Eye/face protection : If contact with product is possible, wear safety glasses with side shields.

Medical Surveillance : Not available.

Section 9. Physical and chemical properties

Physical state : Solid. [rubber bales]

Color : Yellow. [Light]

Odor : Characteristic. [Slight]

Odor threshold : Not available.

pH : Not available.

Boiling point : Not available.

Melting point : Not available.

Flash point : Not available.

Evaporation rate : Not available.

Explosion limits : Not available.

Vapor pressure : Not available.

Specific gravity (Relative density) : Not available.

Solubility : Insoluble in the following materials: cold water

Partition coefficient: n-octanol/water : Not available.

Vapor density : Not available.

Viscosity : Not available.

Combustibility at 20 °C : BZ 1 = no ignition (VDI 2263).

Auto-ignition temperature : >370°C (>698°F)

Decomposition temperature : >300°C

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Keep away from heat and direct sunlight.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on the likely routes of exposure : Dermal contact. Inhalation.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : Contact with hot material will cause thermal burns.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : Reddening, itching, swelling, burning and possible permanent damage.
Ingestion : No specific data.

Potential chronic health effects

Short term exposure

Potential immediate effects : Not available.

Long term exposure

Potential delayed effects : Not available.
General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	Test
Distillates, petroleum, solvent-dewaxed heavy par affinic	LD50 Oral	Rat	>5000 mg/kg	-	-
Distillates, petroleum, solvent-dewaxed heavy par affinic	LD50 Dermal	Rabbit	>5000 mg/kg	-	-

Irritation/Corrosion

Conclusion/Summary

Skin : Distillates, petroleum, solvent-dewaxed heavy par affinic:Slight irritant (tested on rabbits)
Eyes : Distillates, petroleum, solvent-dewaxed heavy par affinic:Non-irritating (tested on rabbit eyes)

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Distillates, petroleum, solvent-dewaxed heavy par affinic	skin	Guinea pig	Not sensitizing

Skin : Distillates, petroleum, solvent-dewaxed heavy par affinic:Non-sensitizer.

Chronic toxicity

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Distillates, petroleum, solvent-dewaxed heavy par affinic	Chronic NOAEL Dermal	Rabbit	200 mg/kg	28 days
	Chronic NOAEL Inhalation Vapor	Rat	0.21 mg/l	28 days

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Distillates, petroleum, solvent-dewaxed heavy par affinic	Equivocal - Dermal -	Mouse - Female	-	1 years
	Equivocal - Dermal -	Mouse - Male	-	2 years

Product/ingredient name	CAS #	IARC	NTP	OSHA
Distillates, petroleum, solvent-dewaxed heavy par affinic	64742-65-0	Not classified.	Not classified.	Not classified.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Distillates, petroleum, solvent-dewaxed heavy par affinic	Category 3	Not applicable.	Respiratory tract irritation

Section 12. Ecological information

Toxicity

Product/ingredient name	Test	Result	Species	Exposure
Distillates, petroleum, solvent-dewaxed heavy par affinic	-	EC50 >10000 mg/l	Daphnia - Daphnia magna	48 hours
	-	LC50 >1000 mg/l	Fish - Salmo gairdneri	96 hours
	-	LC50 >5000 mg/l	Fish - Trout	96 hours
	-	Acute EC50 >1000 mg/l	Algae - Scenedesmus subspicatus	96 hours
	-	Acute EC50 >1000 mg/l	Bacteria - Pseudomonas fluorescens	6 hours
	OECD 202	Acute EC50 >1000 mg/l	Daphnia - Daphnia magna	48 hours
	OECD 203	Acute LC50 >5000 mg/l	Fish - Oncorhynchus mykiss	96 hours

Conclusion/Summary : Not available.

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Distillates, petroleum, solvent-dewaxed heavy par affinic	OECD 301F Ready Biodegradability - Manometric Respirometry Test	31 % - Inherent - 28 days	44 mg/l	Activated sludge

Conclusion/Summary : Not available.

Section 12. Ecological information

Product/ingredient name Distillates, petroleum, solvent-dewaxed heavy par affinic	Aquatic half-life -	Photolysis -	Biodegradability Inherent
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Bioaccumulative potential

Product/ingredient name Distillates, petroleum, solvent-dewaxed heavy par affinic	LogP_{ow} >3.9	BCF -	Potential high
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Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls laws.

RCRA classification : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	-	-	-	-		Not regulated.
IMDG Class	-	-	-	-		Not regulated.
IATA-DGR Class	-	-	-	-		Not regulated.

PG* : Packing group

RQ : 0 lbs

Section 15. Regulatory information

SARA 311/312 : Not applicable.

SARA Title III Section 302 Extremely Hazardous Substances : None

SARA Title III Section 313 Toxic Chemicals : None

US EPA CERCLA Hazardous Substances (40 CFR 302) : None

State regulations

Section 15. Regulatory information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

<u>Ingredient name</u>	<u>CAS number</u>	<u>State Code</u>	<u>Concentration (%)</u>
Distillates, petroleum, solvent-dewaxed heavy par affinic	64742-65-0	NJ - HS, PA - RTK HS	30 - 36%
Ethylene Propylene Diene Rubber	25038-36-2		63 - 69%
Massachusetts Substances: MA - S			
Massachusetts Extraordinary Hazardous Substances: MA - Extra HS			
New Jersey Hazardous Substances: NJ - HS			
Pennsylvania RTK Hazardous Substances: PA - RTK HS			
Pennsylvania Special Hazardous Substances: PA - Special HS			

California Prop. 65

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

U.S. Toxic Substances Control Act : Listed on the TSCA Inventory.

Section 16. Other information

Hazardous Material Information System	Health	1
	Flammability	1
	Physical hazards	0

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme
*=Chronic

The customer is responsible for determining the PPE code for this material. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

National Fire Protection Association (U.S.A.) :



0= Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

LANXESS' method of hazard communication is comprised of Product Labels and Safety Data Sheets. HMIS and NFPA ratings are provided by LANXESS as a customer service.

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Product Safety and Regulatory Affairs

Indicates information that has changed from previously issued version.

Section 16. Other information

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