

**Keltan ® 4465**

Version      Revision Date:      SDS Number:      Date of previous issue: -  
 1.0          11/15/2018          103000007122      Country / Language: US / EN

**SECTION 1. IDENTIFICATION**

Product name                      : Keltan ® 4465  
 Material number                  : 57385402  
 Recommended use                 : crude product for the production of technical rubber articles

**Manufacturer or supplier's details**

Supplier                            : ARLANXEO USA LLC  
    111 RIDC Park West Drive  
    PITTSBURGHPA 15275-1112  
    USA  
 Telephone                         : +18005269377 For information: US/Canada  
    +14128091000 International  
 Emergency telephone            : Chemtrec (800) 424-9300  
    International (703) 527-3887  
    Lanxess Emergency Phone (800) 410-3063

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200).**

The polymer is not hazardous in the form in which it is placed on the market as long as the hazardous component is included in the polymer matrix.

**GHS label elements**

The polymer is not hazardous in the form in which it is placed on the market as long as the hazardous component is included in the polymer matrix.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature                    : Ethylene-propylene-diene-rubber (EPDM), oil extended

**Hazardous ingredients**

Chemical name	CAS-No.	Concentration (% w/w)
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	>= 30 - < 50
3a,4,7,7a-tetrahydro-4,7-methanoindene	77-73-6	>= 0.1 - < 1

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

**SECTION 4. FIRST AID MEASURES**

If inhaled                            : If inhaled, remove to fresh air.  
    Get medical attention if symptoms occur.  
 In case of skin contact            : Wash off with soap and water.

## Keltan ® 4465

Version	Revision Date:	SDS Number:	Date of previous issue: -
1.0	11/15/2018	103000007122	Country / Language: US / EN

---

Get medical attention if symptoms occur.

In case of eye contact : Flush eyes with water as a precaution.  
Get medical attention if symptoms appear.

If swallowed : Get medical attention if symptoms appear.

**Most important symptoms and effects, both acute and delayed**

Symptoms : Skin: Reddening, burning, and possible permanent damage.

Effects : Contact with hot material causes thermal skin burns.

**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Water spray  
Foam  
Dry chemical  
Carbon dioxide (CO<sub>2</sub>)  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : None known.

Specific hazards during fire fighting : Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide

Further information : 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.  
Put on appropriate personal protection equipment.  
Do not touch or walk through spilled material.  
Evacuate personnel to safe areas.  
Keep unnecessary and unprotected personnel from entering.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Keltan ® 4465

Version 1.0      Revision Date: 11/15/2018      SDS Number: 103000007122      Date of previous issue: -  
Country / Language: US / EN

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 wastes in an approved waste disposal facility.  
Do not allow spilled material or wash water to enter sewers, surface waters, or groundwater systems.

## SECTION 7. HANDLING AND STORAGE

Advice on safe handling : 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.

Protect from moisture.

Conditions for safe storage : 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 closed when not in use.  
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.  
Do not store in unlabeled containers.  
Use appropriate container to avoid environmental contamination.

Keep away from direct sunlight or strong incandescent light.  
Protect from moisture.

Recommended storage temperature : < 86 °F (< 30 °C)

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m <sup>3</sup>	ACGIH
3a,4,7,7a-tetrahydro-4,7-methanoindene	77-73-6	TWA	5 ppm	ACGIH

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Keltan ® 4465**

Version	Revision Date:	SDS Number:	Date of previous issue: -
1.0	11/15/2018	103000007122	Country / Language: US / EN

---

**Personal protective equipment**

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.

Hand protection

Remarks : Wear suitable gloves.

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear suitable protective clothing.

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.  
Ensure that eyewash stations and safety showers are close to the workstation location.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : solid

Appearance : bales

Color : white

Odor : No data available

Odor Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : No data available

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

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit : No data available

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# SAFETY DATA SHEET

## Keltan ® 4465

Version 1.0      Revision Date: 11/15/2018      SDS Number: 103000007122      Date of previous issue: -  
Country / Language: US / EN

---

Vapor pressure : No data available  
Relative vapor density : No data available  
Relative density : No data available  
Density : No data available  
Solubility(ies)  
Water solubility : insoluble  
Partition coefficient: n-octanol/water : No data available  
Ignition temperature : No data available  
Decomposition temperature : No data available  
Viscosity : No data available  
Explosive properties : No data available  
Oxidizing properties : No data available

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### 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 : None known.  
Conditions to avoid : Extremes of temperature and direct sunlight.  
Incompatible materials : No specific data.

#### **Hazardous decomposition products**

Thermal decomposition : Caused by smouldering and incomplete combustion toxic fumes mainly consisting of CO and CO<sub>2</sub> may be developed. Degradation products of the polymers and their additives may also be formed.

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### SECTION 11. TOXICOLOGICAL INFORMATION

The most important known symptoms and effects are described in Section 2 and/or Section 4.

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**Keltan ® 4465**

Version 1.0      Revision Date: 11/15/2018      SDS Number: 103000007122      Date of previous issue: -  
Country / Language: US / EN

---

**Information on likely routes of exposure**

Inhalation  
Skin contact

**Acute toxicity**

Not classified based on available information.

**Components:****Distillates (petroleum), hydrotreated heavy paraffinic:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

**3a,4,7,7a-tetrahydro-4,7-methanoindene:**

Acute oral toxicity : LD50 (Rat): 353 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.61 mg/l, 610 mg/m<sup>3</sup>  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): 5,080 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Components:****Distillates (petroleum), hydrotreated heavy paraffinic:**

Result: No skin irritation

**3a,4,7,7a-tetrahydro-4,7-methanoindene:**

Species: Rabbit  
Result: Irritating to skin.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Components:****Distillates (petroleum), hydrotreated heavy paraffinic:**

Result: No eye irritation

## Keltan ® 4465

Version	Revision Date:	SDS Number:	Date of previous issue: -
1.0	11/15/2018	103000007122	Country / Language: US / EN

---

**Respiratory or skin sensitization****Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Components:****3a,4,7,7a-tetrahydro-4,7-methanoindene:**

Routes of exposure: Skin contact  
 Species: Guinea pig  
 Method: OECD Test Guideline 406  
 Result: Did not cause sensitization on laboratory animals.  
 GLP: yes

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****3a,4,7,7a-tetrahydro-4,7-methanoindene:**

Genotoxicity in vitro	:	Test system: Bacteria Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes
		Test system: yeast Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 480 Result: negative
		Test Type: Chromosome aberration test in vitro Test system: Mammalian-Animal Metabolic activation: with and without metabolic activation Result: negative GLP: yes
Genotoxicity in vivo	:	Species: Mammalian-Animal Application Route: Oral Method: OECD Test Guideline 474 Result: negative GLP: yes

**Carcinogenicity**

Not classified based on available information.

**Components:****Distillates (petroleum), hydrotreated heavy paraffinic:**

Carcinogenicity - Assessment	:	Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)
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**Keltan ® 4465**

Version	Revision Date:	SDS Number:	Date of previous issue: -
1.0	11/15/2018	103000007122	Country / Language: US / EN

---

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

Not classified based on available information.

**Components:****3a,4,7,7a-tetrahydro-4,7-methanoindene:**

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Dose: 100 milligram per kilogram  
Duration of Single Treatment: 44 d  
Symptoms: No maternal effects. No effects on fertility. No effects on early embryonic development.  
Method: OECD Test Guideline 422  
GLP: yes

**STOT-single exposure**

Not classified based on available information.

**Components:****Distillates (petroleum), hydrotreated heavy paraffinic:**

Assessment: May cause respiratory irritation.

**STOT-repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Components:****Distillates (petroleum), hydrotreated heavy paraffinic:**

May be fatal if swallowed and enters airways.

**Further information****Product:**

Remarks: Under the recommended processing conditions small amounts of emitted substance (e.g. residual monomers, residual solvents, decomposition products) may be discharged.  
According to our experience and information the product has no harmful effects on health if



**Keltan® 4465**

Version	Revision Date:	SDS Number:	Date of previous issue: -
1.0	11/15/2018	103000007122	Country / Language: US / EN

---

properly handled.

The substance(s) listed in Chapter 3 is/are encapsulated in this preparation in a polymer and is/are therefore not bioavailable.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****Distillates (petroleum), hydrotreated heavy paraffinic:**

- Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
End point: mortality  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: water extractable fraction
- Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 10,000 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: water extractable fraction
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
End point: Biomass  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: water extractable fraction

**Ecotoxicology Assessment**

- Acute aquatic toxicity : No toxicity at the limit of solubility.
- Chronic aquatic toxicity : This product has no known ecotoxicological effects.

**3a,4,7,7a-tetrahydro-4,7-methanoindene:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 15.9 mg/l  
Exposure time: 96 h  
Remarks: Fresh water
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 4.2 mg/l  
Exposure time: 48 h  
Remarks: Fresh water
- Toxicity to fish (Chronic toxicity) : NOEC (Lepomis macrochirus (Bluegill sunfish)): 0.98 mg/l  
Exposure time: 14 Days  
Method: OECD Test Guideline 204  
Remarks: Fresh water
- Toxicity to microorganisms : Lowest Observed Effect Concentration (Pseudomonas putida): 2
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**Keltan ® 4465**

Version	Revision Date:	SDS Number:	Date of previous issue: -
1.0	11/15/2018	103000007122	Country / Language: US / EN

---

Exposure time: 18 h  
Method: Standard Test Method 172-07  
Remarks: Fresh water

**Persistence and degradability****Components:****Distillates (petroleum), hydrotreated heavy paraffinic:**

Biodegradability : Result: Not readily biodegradable.

**3a,4,7,7a-tetrahydro-4,7-methanoindene:**

Biodegradability : aerobic  
Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: yes

**Bioaccumulative potential****Components:****Distillates (petroleum), hydrotreated heavy paraffinic:**

Partition coefficient: n-  
octanol/water : log Pow: > 6

**3a,4,7,7a-tetrahydro-4,7-methanoindene:**

Bioaccumulation : Bioconcentration factor (BCF): 58.8 - 330

Partition coefficient: n-  
octanol/water : log Pow: 2.78

**Mobility in soil**

No data available

**Other adverse effects****Product:**

Additional ecological information : The product is practically insoluble in water. In view of its consistency and insolubility in water, no ecological problems are to be expected if the product is properly handled. This product is not readily biodegradable.

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**SECTION 13. DISPOSAL CONSIDERATIONS**

RCRA - Resource Conservation and Recovery Authorization Act : 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 contain-

## Keltan ® 4465

Version	Revision Date:	SDS Number:	Date of previous issue: -
1.0	11/15/2018	103000007122	Country / Language: US / EN

---

ing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

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

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**SECTION 14. TRANSPORT INFORMATION**
**Domestic regulation****DOT**

Not regulated as a dangerous good

**International Regulations****IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

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**SECTION 15. REGULATORY INFORMATION**
**CERCLA**

None

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**US State Regulations****Massachusetts Right To Know**

Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	30 - 50
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**Pennsylvania Right To Know**

# SAFETY DATA SHEET

## Keltan® 4465

Version 1.0      Revision Date: 11/15/2018      SDS Number: 103000007122      Date of previous issue: -  
Country / Language: US / EN

Ethylene Propylene Diene Rubber      25038-36-2      65 - 70  
Distillates (petroleum), hydrotreated heavy paraf-      64742-54-7      30 - 50  
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### California Prop. 65

WARNING: This product can expose you to chemicals including Hexane, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Any chemical(s) listed above which do not appear elsewhere on this SDS are contained in this product at concentrations below 0.01%.

### TSCA inventory

TSCA : On TSCA Inventory

### TSCA list

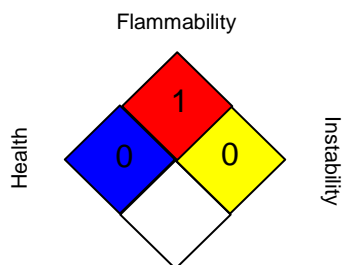
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA:



Special hazard.

#### HMIS® IV:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

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.

Revision Date : 11/15/2018

This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of our knowledge. The information provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge, information and belief at the date of its publication. We assume no legal responsibility for use of or reliance upon the information in this SDS.

# SAFETY DATA SHEET



## Keltan ® 4465

Version	Revision Date:	SDS Number:	Date of previous issue: -
1.0	11/15/2018	103000007122	Country / Language: US / EN

---