# SAFETY DATA SHEET



# **Section 1. Identification**

Product identifier : Therban 4498 VP

Material Number : 56463104

Chemical family : Synthetic rubber

Identified uses : rubber

Supplier/Manufacturer : ARLANXEO USA LLC

111 RIDC Park West Drive Pittsburgh, PA 15275-1112 United States (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**: This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Physical state : Solid.

Color : Light brown.

Classification of the substance or mixture Hazard pictograms

fication of the : SKIN SENSITIZATION. - Category 1



: None known.

Signal word : Warning

**Hazard statements** : May cause an allergic skin reaction.

Hazard Not Otherwise

**Precautionary statements** 

Classified (HNOC)

**Prevention**: Wear protective gloves. Avoid breathing dust. Contaminated work clothing should not be allowed out of the workplace.

**Response**: IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national and

international regulations.

**Supplemental label** : Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink.

Therban 4498 VP 56463104 Version 3 **1/9** 

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Organic phosphorus derivative	<1	Trade secret.

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 adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. If not breathing, if breathing is irregulor or respiratory arrest occurs, provide artifical respiration, or oxygen by a trained professional, using a pocket type respirator.

Skin contact

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

**Skin contact**: May cause an allergic skin reaction. 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**: Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash

when subsequently exposed to very low levels. Reddening, itching, swelling, burning

and possible permanent damage.

**Ingestion**: No specific data.

### Potential chronic health effects

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Notes to physician : Treat symptomatically. No specific treatment.

Therban 4498 VP 56463104 Version 3 **2/9** 

# Section 4. First aid measures

**Protection of first-aiders** 

: No special measures required.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing media

Unsuitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire. In case of fire, use water spray (fog), foam or dry chemical.

: None known.

Specific hazards arising from the chemical

Hazardous thermal decomposition products

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

 Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides

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. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

: Move containers from spill area. Approach release from upwind. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, 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. Prevent entry into sewers, water courses, basements or confined areas.

# Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** 

: Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. 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. Persons with a history of skin sensitization to this product should not be employed in any process in which this product is used.

# Section 7. Handling and storage

Conditions for safe storage: Do not store above the following temperature: 35°C (95°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 retain product residue and can be hazardous. Do not reuse container.

# Section 8. Exposure controls/personal protection

### Occupational exposure limits

No exposure limit value known.

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.

Appropriate engineering controls

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

**Personal protection** 

Skin 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.

: Respirator selection must be based on known or anticipated exposure levels, the **Respiratory protection** 

hazards of the product and the safe working limits of the selected respirator.

: Wear cloth work clothing including long pants and long-sleeved shirts. When handling hot material, wear heat-resistant protective gloves that are able to withstand the

temperature of molten product. Suitable protective footwear.

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

**Medical Surveillance** : Not available.

# Section 9. Physical and chemical properties

**Physical state** Solid. [rubber bales]

Color Light brown. Odor Faint odor. **Odor threshold** Not available. Ha : Not available. **Boiling point** : Not available. **Melting point** Not available.

Flash point Closed cup: >300°C (>572°F)

**Evaporation rate** Not available. Not available. **Explosion limits** 

Vapor pressure

0.96 g/cm3 [20°C (68°F)] **Density** 

**Specific gravity (Relative** 

density)

Not available.

Solubility in water

Partition coefficient: n-

octanol/water

Not available.

Vapor density : Not available.

3 4/9 Therban 4498 VP 56463104 Version

# Section 9. Physical and chemical properties

Viscosity : Not available.

Ignition temperature : >300°C

Auto-ignition temperature : >300°C

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** : No specific data.

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.

### Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

**Skin contact**: May cause an allergic skin reaction. 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**: Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash

when subsequently exposed to very low levels. Reddening, itching, swelling, burning

and possible permanent damage.

**Ingestion** : No specific data.

### Potential chronic health effects

**Short term exposure** 

Potential immediate : Not available.

effects

**Long term exposure** 

Potential delayed effects : Not available.

General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

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

# **Section 11. Toxicological information**

Product/ingredient name	Result	Species	Dose	Exposure	Test	
Organic phosphorus derivative	LD50 Oral	Rat	>700 mg/kg	-	-	
Organic phosphorus derivative	LD50 Dermal	rabbit - Male, Female	>4000 mg/kg Dosage caused no mortality	-	-	
Organic phosphorus derivative	LC50 Inhalation Dusts and mists LC50 Inhalation Dusts and mists	Rat	>16.8 mg/l 12.5 mg/l	1 hours 4 hours	-	

### **Irritation/Corrosion**

**Conclusion/Summary** 

**Skin** : Organic phosphorus derivative:Non-irritating (Rabbit)

Eyes : Organic phosphorus derivative:Non-irritating (Rabbit)

### **Sensitization**

Product/ingredient name	Route of exposure	Species	Result
Organic phosphorus derivative	skin	Guinea pig	Sensitizing

**Skin** : Organic phosphorus derivative:sensitizer

### **Chronic toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Organic phosphorus derivative	Sub-chronic NOAEL Oral	Rat - Male, Female	6 mg/kg bw/day	91 days; 7 days per week
	Sub-chronic LOAEL Oral	Rat - Male, Female	60 mg/kg bw/day	91 days; 7 days per week
	Chronic NOAEL Inhalation Dusts and mists	Dog - Male, Female	<0.0018 mg/l	28 days; daily
	Sub-acute LOAEL Inhalation Dusts and mists	Rat - Male	2400 mg/m³	12 weeks; 4 hours per day

### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
Organic phosphorus derivative	471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	Micronucleus assay	Experiment: In vivo Subject: Mammalian-Animal	Negative

### **Carcinogenicity**

Product/ingredient name	CAS#	IARC	NTP	OSHA
Organic phosphorus derivative	Trade secret.	Not classified.	Not classified.	Not classified.

## Acute toxicity estimates

Route	ATE value (Acute Toxicity Estimates)
Not available.	

# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Test	Result	Species	Exposure
Organic phosphorus derivative	OECD 201 Alga, Growth Inhibition Test	Acute EC50 >5 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours (biomass), (growth rate)
	DIN 38412 Part 27	Acute EC50 >10000 mg/l	Bacteria - Activated sludge	30 minutes
	OECD 202 <i>Daphnia</i> sp. Acute Immobilization Test	Acute EC50 >5 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	DIN 38412, L15	Acute LC50 >10000 mg/l Fresh water	Fish - Leuciscus idus	96 hours
	OECD 201 Alga, Growth Inhibition Test	Chronic NOEC >5 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours

**Conclusion/Summary** 

: Not available.

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Organic phosphorus derivative	OECD 301F Ready Biodegradability - Manometric Respirometry Test	<20 % - Not readily - 28 days	-	Activated sludge

### Conclusion/Summary

: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Organic phosphorus derivative	-	-	Not readily

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Organic phosphorus derivative	>2.587	30	low

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. 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*	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 : Immediate (acute) health hazard

: None

SARA Title III Section 302

**Extremely Hazardous** 

**Substances** 

SARA Title III Section 313 : None

**Toxic Chemicals** 

US EPA CERCLA : None

**Hazardous Subtances (40** 

**CFR 302.4)** 

### **State regulations**

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>

<u>(%)</u>

95 - 100%

Hydrogenated Acrylonitrile-Butadiene 88254-10-8

Copolymer

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

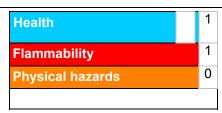
To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

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

**Control Act** 

# Section 16. Other information

Hazardous Material Information System



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

\*=Chronic

### Section 16. Other information

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

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

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**Product Safety and Regulatory Affairs** 

Indicates information that has changed from previously issued version.

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