


# SAFETY DATA SHEET

## Section 1. Identification

<b>Product identifier</b>	: THERBAN ART 3462
<b>Material Number</b>	: 05262518
<b>Chemical family</b>	: Synthetic rubber
<b>Identified uses</b>	: Rubber
<b>Supplier/Manufacturer</b>	: 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
<b>In case of emergency</b>	: Chemtrec (800) 424-9300 International (703) 527-3887 Lanxess Emergency Phone (800) 410-3063.

## Section 2. Hazards identification

<b>HAZCOM Standard Status</b>	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Physical state</b>	: Solid.
<b>Color</b>	: Yellowish.
<b>Classification of the substance or mixture</b>	: SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION. - Category 1
<b>Hazard pictograms</b>	: 
<b>Signal word</b>	: Danger
<b>Hazard statements</b>	: Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction.
<b>Hazard Not Otherwise Classified (HNOC)</b>	: None known.
<b>Precautionary statements</b>	
<b>Prevention</b>	: Wear protective gloves and eye/face protection. Avoid breathing dust. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
<b>Response</b>	: IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
<b>Storage</b>	: Not applicable.
<b>Disposal</b>	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Supplemental label elements</b>	: 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** : Mixture

Ingredient name	%	CAS number
Zinc Diacrylate	25 - 50	14643-87-9
Triphenyl Phosphine	<1	603-35-0

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** : Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. In case of contact with eyes, flush eyes with plenty of water for at least 30 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 irregular or respiratory arrest occurs, provide artificial respiration, or oxygen by a trained professional, using a pocket type respirator.
- Skin contact** : In case of contact, flush skin with plenty of water for at least 30 minutes. Get medical attention immediately. Immediately remove contaminated clothing and shoes. Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. 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. Chemical burns must be treated promptly by a physician. 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 contact** : Causes serious eye damage.
- Inhalation** : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : May cause burns to mouth, throat and stomach.

### Over-exposure signs/symptoms

- Eye contact** : Corrosive with symptoms of reddening, tearing, swelling, burning and possible permanent damage.
- Inhalation** : No specific data.

## Section 4. First aid measures

- Skin contact** : Corrosive with symptoms of reddening, itching, swelling, burning and possible permanent damage.  
Causes irritation with symptoms of reddening, itching, and swelling.  
Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash when subsequently exposed to very low levels.
- Ingestion** : Corrosive with symptoms of coughing, burning, ulceration, and pain.
- 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.
- Protection of first-aiders** : If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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. Water runoff from fire fighting may be corrosive.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
metal oxide/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.
- Conditions for safe storage** : Do not store above the following temperature: 40°C (104°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

<b>Ingredient name</b>	<b>Exposure limits</b>
Zinc Diacrylate	None
Triphenyl Phosphine	None

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### 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. Contaminated work clothing should not be allowed out of the workplace. 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 suitable protective clothing and gloves. Suitable protective footwear.
- Eye/face protection** : chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. 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. [Pellets.]
- Color** : Yellowish.
- Odor** : Faint odor.
- Odor threshold** : Not available.
- pH** : Not available.
- Boiling point** : Not available.

## Section 9. Physical and chemical properties

<b>Melting point</b>	: Not available.
<b>Flash point</b>	: Closed cup: >300°C (>572°F)
<b>Evaporation rate</b>	: Not available.
<b>Explosion limits</b>	: Not available.
<b>Vapor pressure</b>	: Not available.
<b>Density</b>	: 1.16 g/cm <sup>3</sup>
<b>Specific gravity (Relative density)</b>	: Not available.
<b>Solubility in water</b>	: Insoluble in the following materials: cold water
<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Vapor density</b>	: Not available.
<b>Viscosity</b>	: Not available.
<b>Ignition temperature</b>	: >300°C
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: >250°C

## Section 10. Stability and reactivity

<b>Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: Take precautionary measures against electrostatic discharges. Avoid contact with ignition and heat sources. Keep away from direct sunlight.
<b>Incompatible materials</b>	: Reactive or incompatible with the following materials: acids alkalis combustible materials reducing agents
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

<b>Information on the likely routes of exposure</b>	: Dermal contact. Inhalation.
<b><u>Potential acute health effects</u></b>	
<b>Eye contact</b>	: Causes serious eye damage.
<b>Inhalation</b>	: May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
<b>Skin contact</b>	: Causes skin irritation. May cause an allergic skin reaction.
<b>Ingestion</b>	: May cause burns to mouth, throat and stomach.
<b><u>Symptoms related to the physical, chemical and toxicological characteristics</u></b>	
<b>Eye contact</b>	: Corrosive with symptoms of reddening, tearing, swelling, burning and possible permanent damage.
<b>Inhalation</b>	: No specific data.
<b>Skin contact</b>	: Corrosive with symptoms of reddening, itching, swelling, burning and possible permanent damage. Causes irritation with symptoms of reddening, itching, and swelling. Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash when subsequently exposed to very low levels.
<b>Ingestion</b>	: Corrosive with symptoms of coughing, burning, ulceration, and pain.

## Section 11. Toxicological information

### Potential chronic health effects

#### Short term exposure

**Potential immediate effects** : Not available.

#### 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

Product/ingredient name	Result	Species	Dose	Exposure	Test
Zinc Diacrylate	LD50 Oral	Rat	1337 mg/kg	-	-
Triphenyl Phosphine	LD50 Oral	Rat	>700 mg/kg	-	-
Triphenyl Phosphine	LD50 Dermal	rabbit - Male, Female	>4000 mg/kg Dosage caused no mortality	-	-
Triphenyl Phosphine	LC50 Inhalation Dusts and mists	Rat	>16.8 mg/l	1 hours	-
	LC50 Inhalation Dusts and mists	Rat	12.5 mg/l	4 hours	-

#### Irritation/Corrosion

##### Conclusion/Summary

**Skin** : Zinc Diacrylate:irritant  
Triphenyl Phosphine:Non-irritating (Rabbit)

**Eyes** : Zinc Diacrylate:Risk of serious damage to eyes.  
Triphenyl Phosphine:Non-irritating (Rabbit)

#### Sensitization

Product/ingredient name	Route of exposure	Species	Result
Triphenyl Phosphine	skin	Guinea pig	Sensitizing

**Skin** : Triphenyl Phosphine:sensitizer

#### Chronic toxicity

## Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Triphenyl Phosphine	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/m <sup>3</sup>	12 weeks; 4 hours per day

### Mutagenicity

Product/ingredient name	Test	Experiment	Result
Triphenyl Phosphine	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
Zinc Diacrylate	14643-87-9	Not classified.	Not classified.	Not classified.
Triphenyl Phosphine	603-35-0	Not classified.	Not classified.	Not classified.

### Reproductive toxicity

Product/ingredient name	Effects	Species	Dose	Exposure
Triphenyl Phosphine	NOAEL	Rat	Oral: 6 mg/kg bw/ day (general toxicity)	91 days; 7 days per week
	NOAEL	Rat	Oral: 120 mg/kg bw/ day (reproduction toxicity)	91 days; 7 days per week

### Acute toxicity estimates

Route	ATE value (Acute Toxicity Estimates)
Oral	3670.3 mg/kg

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Test	Result	Species	Exposure
Zinc Diacrylate	-	Acute EC50 0.04 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	-	Acute LC50 47 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	-	Acute LC50 27 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Triphenyl Phosphine	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

## Section 12. Ecological information

	OECD 202 <i>Daphnia</i> sp. Acute Immobilization Test DIN 38412, L15	Acute EC50 >5 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	OECD 201 Alga, Growth Inhibition Test	Acute LC50 >10000 mg/l Fresh water Chronic NOEC >5 mg/l Fresh water	Fish - <i>Leuciscus idus</i> Algae - <i>Desmodesmus subspicatus</i>	96 hours 72 hours

**Conclusion/Summary** : Not available.

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Triphenyl Phosphine	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
Triphenyl Phosphine	-	-	Not readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Zinc Diacrylate	0.46	-	low
Triphenyl Phosphine	>2.587	30	low

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : 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



## Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
<b>DOT Classification</b>	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC ACRYLATE)	9	III	 	8, 146, 335, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33 The U.S. Department of Transportation regulations in 49CFR 172.102 permit this material to ship as an Environmentally Hazardous Substance, Class 9, using Special Provision 146.
<b>IMDG Class</b>	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC ACRYLATE)	9	III	 	<b>Emergency schedules (EmS)</b> F-A, S-F
<b>IATA-DGR Class</b>	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC ACRYLATE)	9	III	 	<b>Passenger aircraft</b> 956: 400 kg <b>Cargo aircraft</b> 956: 400 kg

PG\* : Packing group

**RQ** : 0 lbs

## Section 15. Regulatory information

**SARA 311/312** : Immediate (acute) health hazard

**SARA Title III Section 302 Extremely Hazardous Substances** : None

	<u>Ingredient name</u>	<u>CAS number</u>	<u>Concentration (%)</u>
<b>SARA Title III Section 313 Toxic Chemicals</b>	Zinc Diacrylate	14643-87-9	25 - 50

	<u>Ingredient name</u>	<u>CAS number</u>	<u>RQ</u>
<b>US EPA CERCLA Hazardous Substances (40 CFR 302.4)</b>	Zinc Diacrylate	14643-87-9	NO_RQ

### 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>
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## Section 15. Regulatory information

Zinc Diacrylate	14643-87-9	NJ - HS, PA - RTK HS	25 - 50
Hydrogenated Acrylonitrile-Butadiene Copolymer	88254-10-8		25 - 50
Soybean oil, epoxidized	8013-07-8		≤10
Proprietary Hazardous Ingredient(s)			≤5

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

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

**WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

<u>Ingredient name</u>	<u>CAS #</u>	<u>Concentration (%)</u>	<u>Cancer</u>	<u>Reproductive</u>
Acrylonitrile	107-13-1	<0.1	Yes	
1,3-Butadiene	106-99-0	<0.1	Yes	Yes

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

## Section 16. Other information

**Hazardous Material Information System**

Health	2
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

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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**Date of issue** : 05-01-2017  
**Date of previous issue** : No previous validation  
**Version** : 1  
 Product Safety and Regulatory Affairs

## Section 16. Other information

Indicates information that has changed from previously issued version.

### Notice to reader

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