

SAFETY DATA SHEET

THERBAN 4367

Version 1.0 Revision Date: 05/24/2019 SDS Number: 103000004084 Date of previous issue: -
Country / Language: US / EN

SECTION 1. IDENTIFICATION

Product name : THERBAN 4367
Material number : 05977452
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

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Hydrogenated acrylonitrile-butadiene-rubber (HNBR)

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Triphenyl Phosphine	603-35-0	>= 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.
Get medical attention if symptoms occur.

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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 (CO₂)
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 (CO₂)
Carbon monoxide
Nitrogen oxides (NO_x)

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.

Methods and materials for : Move containers from spill area.

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containment and cleaning up 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.

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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

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

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.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: solid
Appearance	: rubber bales
Color	: light brown
Odor	: rubber
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
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: No data available
Relative density	: No data available
Density	: 0.98 g/cm ³ (68 °F (20 °C))
Solubility(ies)	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: > 572 °F (> 300 °C)
Decomposition temperature	: > 572 °F (> 300 °C)
Viscosity	: No data available

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Explosive properties : No data available

Oxidizing properties : No data available

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 CO₂ may be developed. Degradation products of the polymers and their additives may also be formed.

SECTION 11. TOXICOLOGICAL INFORMATION

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

Information on likely routes of exposure

Inhalation
Skin contact

Acute toxicity

Not classified based on available information.

Components:**Triphenyl Phosphine:**

Acute oral toxicity : LD50 (Rat): > 700 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 16.8 mg/l
Exposure time: 1 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit, male and female): > 4,000 mg/kg
Remarks: Dosage caused no mortality

Skin corrosion/irritation

Not classified based on available information.

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Persistence and degradability**Components:****Triphenyl Phosphine:**

Biodegradability : aerobic
 Inoculum: activated sludge
 Result: Not readily biodegradable.
 Biodegradation: < 20 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301F
 GLP: no

Bioaccumulative potential**Components:****Triphenyl Phosphine:**

Bioaccumulation : Bioconcentration factor (BCF): 30

Partition coefficient: n-octanol/water : log Pow: > 2.587
 Method: OECD Test Guideline 107

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.

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 containing 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

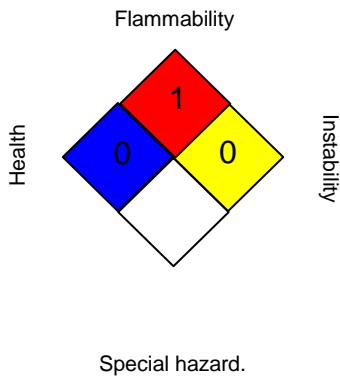
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SECTION 16. OTHER INFORMATION

Further information

NFPA:



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.

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