

THERBAN 4307

Version 1.0 Revision Date: 06/19/2018 SDS Number: 103000003948 Date of previous issue: -
Country / Language: US / EN

SECTION 1. IDENTIFICATION

Product name : THERBAN 4307
Material number : 05623707
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

Substance / Mixture : Mixture

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.
Hazardous components without workplace control parameters

Hazardous components without workplace control parameters

Ingredients	CAS-No.
Triphenyl Phosphine	603-35-0

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

SAFETY DATA SHEET

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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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : solid

Appearance : rubber bales

Color : light brown

Odor : slight

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/cm³ (68 °F (20 °C))

Solubility(ies) : No data available

Partition coefficient: n-octanol/water : No data available

Ignition temperature : > 572 °F (> 300 °C)

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Decomposition temperature : > 572 °F (> 300 °C)

Viscosity : No data available

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**Ingredients:****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

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Skin corrosion/irritation**Ingredients:****Triphenyl Phosphine:**

Remarks: Non-irritating (Rabbit)

Serious eye damage/eye irritation**Ingredients:****Triphenyl Phosphine:**

Remarks: Non-irritating (Rabbit)

Respiratory or skin sensitization**Ingredients:****Triphenyl Phosphine:**

Routes of exposure: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitization by skin contact.

Germ cell mutagenicity**Ingredients:****Triphenyl Phosphine:**

Genotoxicity in vitro : Test system: Bacteria
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mammalian-Animal
Application Route: Intraperitoneal
Result: negative

Carcinogenicity**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.

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Reproductive toxicity**Ingredients:****Triphenyl Phosphine:**

Effects on fertility : Species: Rat, male and female
Application Route: Oral
Duration of Single Treatment: 91 d
Frequency of Treatment: 7 days/week
Fertility: NOAEL: 120 mg/kg body weight
Method: OECD Test Guideline 408

Effects on fetal development : Species: Rat
Application Route: Oral
Duration of Single Treatment: 6 - 19 d
Frequency of Treatment: 7 days/week
Developmental Toxicity: NOAEL: 90 mg/kg body weight
Method: OECD Test Guideline 414

STOT-repeated exposure**Ingredients:****Triphenyl Phosphine:**

Routes of exposure: Ingestion
Target Organs: Peripheral nervous system, Central nervous system
Assessment: May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity**Ingredients:****Triphenyl Phosphine:**

Species: Rat, male
LOAEL: 2400 mg/m³
Application Route: Inhalation
Exposure time: 4 h / d 12 Weeks
Dose: 2400 mg/m³
Remarks: Subacute toxicity

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 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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Bioaccumulative potential**Ingredients:****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 soil, waterways, drains and sewers.

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

Not regulated as a dangerous good

International Regulations**IATA-DGR**

Not regulated as a dangerous good

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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.

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

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Hydrogenated Acrylonitrile-Butadiene Copolymer 88254-10-8 > 90

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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.

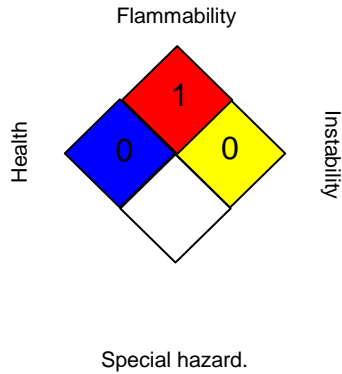
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SECTION 16. OTHER INFORMATION

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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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.