

SAFETY DATA SHEET

KRYNAC X 750

Version 1.0 Revision Date: 02/08/2019 SDS Number: 103000003998 Date of previous issue: -
Country / Language: US / EN

SECTION 1. IDENTIFICATION

Product name : KRYNAC X 750
Material number : 05732263
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
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 : butadiene/acrylonitrile copolymer, carboxylated
contains
alkylarylsulphonate

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
alkylarylsulphonate	68411-30-3	>= 1 - < 3
Methyl-2-mercaptobenzimidazole	53988-10-6	>= 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.
Get medical attention if symptoms occur.

KRYNAC X 750

Version	Revision Date:	SDS Number:	Date of previous issue: -
1.0	02/08/2019	103000003998	Country / Language: US / EN

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.

KRYNAC X 750

Version Revision Date: SDS Number: Date of previous issue: -
1.0 02/08/2019 103000003998 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.

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.

Recommended storage temperature : < 95 °F (< 35 °C)

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
Tightly fitting safety goggles

SAFETY DATA SHEET

KRYNAC X 750

Version	Revision Date:	SDS Number:	Date of previous issue: -
1.0	02/08/2019	103000003998	Country / Language: US / EN

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, beige

Odor : slight, aromatic

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 : > 482 °F (> 250 °C)
Method: closed cup

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 : > 392 °F (> 200 °C)

KRYNAC X 750

Version 1.0 Revision Date: 02/08/2019 SDS Number: 103000003998 Date of previous issue: -
Country / Language: US / EN

Decomposition temperature : > 392 °F (> 200 °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

Not classified based on available information.

Components:

alkylarylsulphonate:

Acute oral toxicity : LD50 (Rat, male and female): 1,220 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

KRYNAC X 750

Version	Revision Date:	SDS Number:	Date of previous issue: -
1.0	02/08/2019	103000003998	Country / Language: US / EN

Remarks: Extrapolation according to Regulation (EC) No. 440/2008

Methyl-2-mercaptobenzimidazole:

- Acute oral toxicity : LD50 (Rat, male): 340 mg/kg
GLP: no
- Acute inhalation toxicity : LC50 (Rat, male and female): > 2.12 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OPPTS 870.1300
GLP: yes
Remarks: Dosage caused no mortality
Test results on an analogous product
- Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: Test results on an analogous product
Dosage caused no mortality

Skin corrosion/irritation

Not classified based on available information.

Components:**alkylarylsulphonate:**

Species: Rabbit
Method: OECD Test Guideline 404
Result: Irritating to skin.

Methyl-2-mercaptobenzimidazole:

Species: Rabbit
Exposure time: 24 h
Assessment: No skin irritation
GLP: no

Serious eye damage/eye irritation

Not classified based on available information.

Components:**alkylarylsulphonate:**

Species: Rabbit
Result: Risk of serious damage to eyes.
Method: OECD Test Guideline 405

Methyl-2-mercaptobenzimidazole:

Species: Rabbit
Exposure time: 24 h
Assessment: No eye irritation

KRYNAC X 750

Version	Revision Date:	SDS Number:	Date of previous issue: -
1.0	02/08/2019	103000003998	Country / Language: US / EN

GLP: no

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

alkylarylsulphonate:

Routes of exposure: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitization on laboratory animals.

Methyl-2-mercaptobenzimidazole:

Routes of exposure: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: Did not cause sensitization on laboratory animals.

GLP: yes

Germ cell mutagenicity

Not classified based on available information.

Components:

alkylarylsulphonate:

Genotoxicity in vitro : Test Type: Ames test
 Test system: Bacteria
 Metabolic activation: with and without metabolic activation
 Result: negative

Genotoxicity in vivo : Test Type: Cytogenetic assay
 Species: Mouse
 Application Route: Oral
 Result: negative

Methyl-2-mercaptobenzimidazole:

Genotoxicity in vitro : Test system: Salmonella typhimurium
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: negative
 GLP: yes

Test system: Chinese hamster fibroblasts
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 476
 Result: negative

KRYNAC X 750

Version	Revision Date:	SDS Number:	Date of previous issue: -
1.0	02/08/2019	103000003998	Country / Language: US / EN

GLP: yes

Test system: human lymphoblastoid cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Carcinogenicity

Not classified based on available information.

Components:**alkylarylsulphonate:**

Species: Rat
Application Route: Oral
Exposure time: 2 Years
Result: negative

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:**alkylarylsulphonate:**

Effects on fetal development : Species: Rat, female
Application Route: Oral
Dose: 600 milligram per kilogram
Duration of Single Treatment: 15 d
Remarks: No known significant effects or critical hazards.

Methyl-2-mercaptobenzimidazole:

Effects on fertility : Species: Rat, male and female
Application Route: Oral
Duration of Single Treatment: 47 Days
General Toxicity F1: LOAEL: 900 - 1,000 parts per million
Fertility: LOAEL: 900 - 1,000 parts per million
Method: OECD Test Guideline 422
GLP: yes
Remarks: Test results on an analogous product

KRYNAC X 750

Version	Revision Date:	SDS Number:	Date of previous issue: -
1.0	02/08/2019	103000003998	Country / Language: US / EN

Reproductive toxicity - Assessment : Suspected human reproductive toxicant

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Components:**Methyl-2-mercaptobenzimidazole:**

Assessment: May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity**Components:****alkylarylsulphonate:**

Species: Rat, male and female

NOAEL: 50 mg/kg

Application Route: Oral

Exposure time: 84 d

Remarks: Subchronic toxicity

Methyl-2-mercaptobenzimidazole:

Species: Rat, male

NOAEL: 4 mg/kg

Application Route: Oral

Exposure time: 28 d

Number of exposures: daily

Remarks: Subacute toxicity

Species: Rat, female

NOAEL: 20 mg/kg

Application Route: Oral

Exposure time: 28 d

Number of exposures: daily

Remarks: Subacute toxicity

Aspiration toxicity

Not classified based on available information.

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.

KRYNAC X 750

Version 1.0 Revision Date: 02/08/2019 SDS Number: 103000003998 Date of previous issue: -
Country / Language: US / EN

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****alkylarylsulphonate:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.67 mg/l
Exposure time: 96 h
Method: OPPTS 850.1075

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.9 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes
Remarks: Fresh water

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 10 - 100 mg/l
Exposure time: 72 h

NOEC (Chlorella vulgaris (Fresh water algae)): 3.1 mg/l
Exposure time: 15 d

Toxicity to fish (Chronic toxicity) : NOEC (Lepomis macrochirus (Bluegill sunfish)): 1 mg/l
Exposure time: 28 d
Method: OECD Test Guideline 204
GLP: no
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 1.18 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
GLP: no
Remarks: Fresh water

Methyl-2-mercaptobenzimidazole:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 37.2 mg/l
Exposure time: 96 h
GLP: yes
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.9 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes
Remarks: Fresh water

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 62.24 mg/l
End point: Growth rate
Exposure time: 72 h

KRYNAC X 750

Version 1.0 Revision Date: 02/08/2019 SDS Number: 103000003998 Date of previous issue: -
Country / Language: US / EN

Method: OECD Test Guideline 201

GLP: yes

Remarks: Fresh water

NOEC (Desmodesmus subspicatus (green algae)): 25 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.0346 mg/l
End point: Reproduction

Exposure time: 21 d

Method: OECD Test Guideline 211

GLP: yes

Remarks: Fresh water

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to microorganisms : EC50: 10,000 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

GLP: yes

Remarks: Fresh water

Persistence and degradability**Components:****alkylarylsulphonate:**

Biodegradability : aerobic
Inoculum: activated sludge
Concentration: 34.3 mg/l
Result: Readily biodegradable.
Biodegradation: 83 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes

Methyl-2-mercaptobenzimidazole:

Biodegradability : aerobic
Concentration: 100 mg/l
Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301C
GLP: yes

KRYNAC X 750

Version	Revision Date:	SDS Number:	Date of previous issue: -
1.0	02/08/2019	103000003998	Country / Language: US / EN

Bioaccumulative potential**Components:****alkylarylsulphonate:**

Partition coefficient: n-octanol/water : log Pow: 1.4
Method: OECD Test Guideline 123

Methyl-2-mercaptobenzimidazole:

Partition coefficient: n-octanol/water : log Pow: 0.300 - 0.400
Method: OECD Test Guideline 117
GLP: yes

Mobility in soil**Components:****Methyl-2-mercaptobenzimidazole:**

Distribution among environmental compartments : log Koc: 1.9
Method: OECD Test Guideline 121

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.

Components:**Methyl-2-mercaptobenzimidazole:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

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.

KRYNAC X 750

Version Revision Date: SDS Number: Date of previous issue: -
1.0 02/08/2019 103000003998 Country / Language: US / EN

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

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

Reportable Quantity

This material does not contain any components with a CERCLA RQ.

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

Butadiene-Acrylonitrile-Methacrylic Acid Copolymer 9010-81-5 95 - 97

California Prop. 65

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

TSCA inventory

SAFETY DATA SHEET

KRYNAC X 750

Version 1.0 Revision Date: 02/08/2019 SDS Number: 103000003998 Date of previous issue: -
Country / Language: US / EN

TSCA : On TSCA Inventory

TSCA list

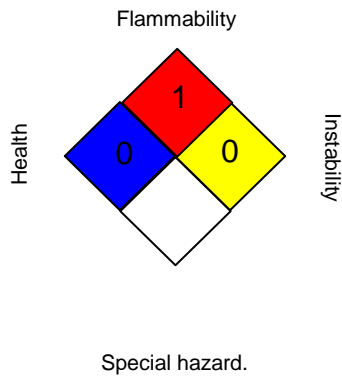
No substances are subject to a Significant New Use Rule.

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

SECTION 16. OTHER INFORMATION

Further information

NFPA:



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 : 02/08/2019

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.