Krynac® 3370 F AO RW PBX42025K DiPk

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Krynac® 3370 F AO RW PBX42025K DiPk

Product code : 000000000057702754

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-stance/Mixture : crude product for the production of technical rubber articles

Recommended restrictions on use : For industrial use only.

1.3 Details of the supplier of the safety data sheet

Company : ARLANXEO Netherlands B.V.
Global Regulatory Affairs and Product Safety
Urmonderbaan 24
6167 RD Geleen

E-mail address of person responsible for the SDS : infosds@arlanxeo.com

1.4 Emergency telephone number

+448708200418 (national); +442038073798 (local)
+17035273887 (Chemtrec Intl)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Not a hazardous substance or mixture.

Additional Labelling

EUH210 Safety data sheet available on request.

EUH208 Contains rosin.
May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical nature : butadiene-acrylonitrile-rubber (NBR).
Polymer

Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	68610-51-5 271-867-2	>= 0,1 - < 0,25
rosin	8050-09-7 232-475-7	>= 0,1 - < 1

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Keep warm and in a quiet place.

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.

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.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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.

5.2 Special hazards arising from the substance or mixture

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 (NOx)

5.3 Advice for firefighters

Special protective equipment for firefighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Should not be released into the environment.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Vacuum or sweep up material and place in a designated, labelled waste container.
Dispose of wastes in an approved waste disposal facility.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Protect from moisture.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

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.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Protect from moisture.

Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Store away from incompatible materials (see section 10) and food and drink. Keep away from direct sunlight or strong incandescent light.

Recommended storage temperature : < 35 °C

7.3 Specific end use(s)

Specific use(s) : Polymer preparations and compounds

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
rosin	8050-09-7	TWA (Fumes)	0,05 mg/m³	GB EH40
	Further information: Capable of causing occupational asthma.			
		STEL (Fumes)	0,15 mg/m³	GB EH40
	Further information: Capable of causing occupational asthma.			

8.2 Exposure controls

Engineering measures

If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal protective equipment

Eye protection	:	Safety glasses with side-shields
Hand protection		
Remarks	:	Wear suitable gloves.
Skin and body protection	:	Wear suitable protective clothing.
Respiratory protection	:	In case of dust formation particle filter.
Filter type	:	P1 filter
Protective measures	:	Wear suitable protective equipment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	rubber bales
Colour	:	yellow to brown
Odour	:	rubber
Flash point	:	Not applicable
Solubility(ies)		
Water solubility	:	insoluble
Auto-ignition temperature	:	> 300 °C

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

This product is stable.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	None known.

10.4 Conditions to avoid

Conditions to avoid : Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Materials to avoid : No specific data.

10.6 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

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Components:

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 165 mg/l
Exposure time: 1 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity

rosin:

Acute oral toxicity : LD50 (Rat): 2.800 mg/kg
GLP: yes
Assessment: The substance or mixture has no acute oral toxicity
Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity

Remarks: Dosage caused no mortality

Skin corrosion/irritation

Not classified based on available information.

Components:

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene:

Species	:	Rabbit
Exposure time	:	4 h
Method	:	OECD Test Guideline 404
GLP	:	yes
Remarks	:	Mild skin irritation (not subject to classification)

rosin:

Result	:	No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	No eye irritation
GLP	:	yes

rosin:

Result	:	No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene:

Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Did not cause sensitisation on laboratory animals.
GLP	:	yes

rosin:

Exposure routes : Skin contact
Result : May cause sensitisation by skin contact.

Germ cell mutagenicity

Not classified based on available information.

Components:

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene:

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

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene:

Effects on foetal development : Species: Rat
Application Route: Oral
Dose: 15 milligram per kilogram
Frequency of Treatment: 7 days/week
Embryo-foetal toxicity: NOAEL: 15 mg/kg body weight
Method: OECD Test Guideline 415
GLP: yes

Species: Rat
Application Route: Oral
Dose: 50 milligram per kilogram
Frequency of Treatment: 7 days/week
General Toxicity Maternal: NOAEL: 50 mg/kg body weight
Method: OECD Test Guideline 414
GLP: yes

Species: Rat
Application Route: Oral
Dose: 1000 milligram per kilogram
General Toxicity Maternal: 1.000 mg/kg body weight
Developmental Toxicity: 1.000 mg/kg body weight
Result: negative

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene:

Species	:	Rat, male and female
NOAEL	:	500 mg/kg
Application Route	:	Oral
Dose	:	500 mg/kg
Method	:	OECD Test Guideline 408
Remarks	:	Subchronic 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.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 0,2 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 0,2 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	:	NOEC (Selenastrum capricornutum (green algae)): > 0,2 mg/l End point: Growth rate Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes

12.2 Persistence and degradability

Components:

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene:

Biodegradability : Test Type: aerobic
Result: Not readily biodegradable.
Biodegradation: 1 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes

12.3 Bioaccumulative potential

Components:

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene:

Partition coefficient: n-octanol/water : log Pow: 7,170 - 8,170
Method: OECD Test Guideline 117

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 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

13.1 Waste treatment methods

Product : Empty containers retain product residue; observe all precautions for product.
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	:	Not applicable

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

Full text of other abbreviations

GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard

of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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