

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## Krynac® 3345 F AO    RW PBX42025K DiPk

Version	Revision Date:	SDS Number:	Date of last issue: -
2.0	31.12.2022	103000008058	Date of first issue: 30.07.2019

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

#### 1.1 Product identifier

Trade name : Krynac® 3345 F AO    RW PBX42025K DiPk

Product code : 000000000057702684

#### 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](mailto:infosds@arlanxeo.com)

#### 1.4 Emergency telephone number

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

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### 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)

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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)
rosin	8050-09-7 232-475-7	$\geq 0,1 - < 1$
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	68610-51-5 271-867-2	$\geq 0,1 - < 0,25$

## 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.

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Risks : None known.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Foam  
Dry chemical  
Carbon dioxide (CO<sub>2</sub>)  
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 (CO<sub>2</sub>)  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)

### 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.

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## 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.

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### 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/m <sup>3</sup>	GB EH40
		Further information: Capable of causing occupational asthma.		
		STEL (Fumes)	0,15 mg/m <sup>3</sup>	GB EH40
		Further information: Capable of causing occupational asthma.		

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### 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.

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## 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

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## 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.

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### 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 CO<sub>2</sub> 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:

##### 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

#### 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

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toxicity

### Skin corrosion/irritation

Not classified based on available information.

#### Components:

##### rosin:

Result : No skin irritation

### 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)

### Serious eye damage/eye irritation

Not classified based on available information.

#### Components:

##### rosin:

Result : No eye irritation

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

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

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

#### Components:

##### rosin:

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

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

Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406

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Result : Did not cause sensitisation on laboratory animals.  
GLP : yes

### 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.



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### 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

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### 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.

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## 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.

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### 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 : Not applicable  
(Annex XIV)

GB Export and import of hazardous chemicals - Prior : Not applicable  
Informed Consent (PIC) Regulation

#### 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

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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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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