

Offer Sheet

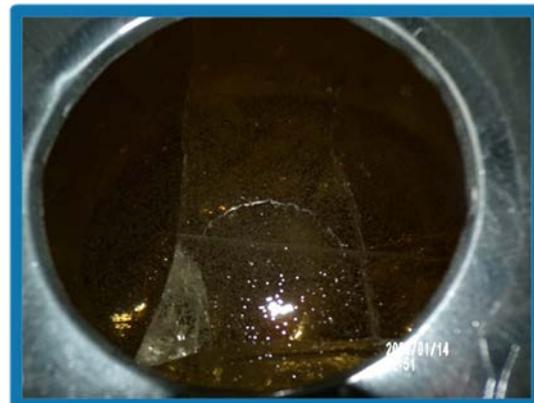
Product	Hydrocarbon Resin (Kristalex 3070)
Quantity	169 drums
Net weight	~71,000 lbs.
Manufacture date	
Availability	One time
Location	West Elizabeth, PA 15088
Date	1/30/26
TDS & SDS	Attached below (COA not available)



Spec A – Color Off-Spec: Elevated YID color (21.4); slight yellow tint only. All other properties within specification.

Spec B – Cloud Point Off-Spec: Elevated OMS cloud point (35 °C vs typical 19 °C). All other properties within specification.

Both batches are suitable for rubber compounding, asphalt modification, roofing materials, crack sealants, and other industrial applications where appearance or low-temperature clarity is not critical.



Kristalex® 3070 is a **C9 aromatic hydrocarbon resin** (petroleum resin) produced by polymerization of **aromatic-rich C9 feedstocks** such as indene, methyindene, styrenics, and vinyltoluenes.

It is a **thermoplastic, solid tackifier/binder resin** characterized by:

- relatively **high softening point**
- strong **aromatic character**
- good compatibility with **styrenic block copolymers (SBS, SIS), natural rubber, SBR**, and other elastomers

Functionally, it is used to impart **tack, adhesion, hardness, and cohesive strength** in formulated systems.

Commercial uses for Hydrocarbon Resin – Kristalex 3070

1) Pressure-sensitive adhesives (PSA) – major market

Used as a **tackifier resin** in:

- labels and tapes
- packaging tapes
- masking tapes
- protective films
- graphic and industrial PSAs

Value: boosts tack, peel strength, and adhesion to polar surfaces when blended with elastomers.

2) Hot melt adhesives (HMA)

Used in hot melt formulations for:

- packaging adhesives
- woodworking and assembly
- hygiene product construction (diapers, nonwovens – depending on formulation)

Value: improves wetting, adhesion, and thermal performance in rubber-based HMAs.

3) Rubber compounding & tire applications

Used as a **tackifier/processing resin** in:

- tire building (green tack improvement)
- rubber sheets and profiles
- hoses, belts, molded rubber goods

Value: improves rubber-to-rubber adhesion, processability, and filler dispersion.

4) Road marking paints and traffic coatings

Used as a **binder component** in:

- thermoplastic road marking paints
- traffic striping materials

Value: provides hardness, durability, pigment binding, and adhesion to pavement.

5) Printing inks (especially solvent-based)

Used as a **binder resin** in:

- gravure inks
- flexographic inks
- industrial marking inks

Value: contributes gloss, fast drying, pigment wetting, and film strength.

6) Industrial coatings (specialty systems)

Used in:

- anti-corrosion coatings
- industrial maintenance paints
- specialty protective coatings

Value: improves hardness, adhesion, and chemical resistance in hydrocarbon-based systems.

7) Sealants and construction adhesives

Used as a resin modifier in:

- rubber-based sealants
- construction mastics
- waterproofing compounds

Value: increases tack, strength, and durability.

Typical industries buying Kristalex 3070-type resins

- adhesive manufacturers (PSA & HMA)
 - rubber product manufacturers
 - traffic paint formulators
 - ink producers
 - industrial coatings companies
 - construction chemical producers
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Why formulators choose a C9 aromatic resin like Kristalex 3070

- excellent compatibility with styrenic elastomers and natural rubber
- strong tack and adhesion development
- high softening point for durability
- good pigment wetting in inks/coatings
- cost-effective tackifier vs specialty resins

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



KRISTALEX™ 3070 Hydrocarbon Resin

Version 1.0 Revision Date: 09/03/2025 Date of last issue: -
Date of first issue: 09/03/2025

SECTION 1. IDENTIFICATION

Product name : KRISTALEX™ 3070 Hydrocarbon Resin

Manufacturer or supplier's details

Company name of supplier : Synthomer Jefferson Hills LLC
Address : 2200 State Route 837
Jefferson Hills PA 15025
Emergency telephone : USA +1 866 928 0789 (toll free) // Americas # +1 215 207
0061 // Global (EN speaking only) +44 (0)1865 407333
NCEC's regional number (involves operator intervention to
identify language)

Recommended use of the chemical and restrictions on use

Recommended use : Adhesives
Raw material for industry

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

GHS label elements

Signal Word : WARNING
Hazard Statements : May form combustible dust concentrations in air.

Other hazards

Risk of dust explosion.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance
Substance name : Benzene, ethenyl-, polymer with (1-methylethenyl)benzeneN
CAS-No. : 9011-11-4

Components

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

General advice : Do not leave the victim unattended.
If inhaled : If unconscious, place in recovery position and seek medical
advice.
If symptoms persist, call a physician.
In case of skin contact : Take off contaminated clothing and shoes immediately.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



KRISTALEX™ 3070 Hydrocarbon Resin

Version	Revision Date:	Date of last issue: -
1.0	09/03/2025	Date of first issue: 09/03/2025

In case of eye contact	:	Wash off with soap and plenty of water. Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	:	None known.
Notes to physician	:	Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	:	None known.
Hazardous combustion products	:	No hazardous combustion products are known
Further information	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid dust formation.
Environmental precautions	:	If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Provide appropriate exhaust ventilation at places where dust is formed.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap-

SAFETY DATA SHEET

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KRISTALEX™ 3070 Hydrocarbon Resin

Version 1.0 Revision Date: 09/03/2025 Date of last issue: -
Date of first issue: 09/03/2025

- Conditions for safe storage : application area.
Keep in properly labeled containers.
Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : No materials to be especially mentioned.
- Further information on storage stability : No decomposition if stored and applied as directed.
-

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection
- Break through time : 480 min
 - Glove thickness : 0.1 - 0.4 mm
- Directive : Equipment should conform to EN 374
- Material : Nitrile rubber
- Eye protection : Safety glasses
- Skin and body protection : Protective suit
- Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.
- Hygiene measures : General industrial hygiene practice.
-

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : pellets
- Color : colorless
- Odor : slight
- Odor Threshold : No data available
- pH : No data available
- Melting point/freezing point : 158 °F / 70 °C
- Initial boiling point and boiling range : No data available
- Flash point : 282.9 °F / 139.4 °C
Method: closed cup
- Flammability (solid, gas) : May form combustible dust concentrations in air.
-

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KRISTALEX™ 3070 Hydrocarbon Resin

Version	Revision Date:	Date of last issue: -
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Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	Upper flammability limit No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	Not applicable
Relative density	:	1.09 (77 °F / 25 °C)
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	100 mPa.s (356 °F / 180 °C)
Viscosity, kinematic	:	91.74 mm ² /s (356 °F / 180 °C)

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Dust may form explosive mixture in air. With oxidizing agents possible. Stable under recommended storage conditions. No hazards to be specially mentioned. Dust may form explosive mixture in air.
Conditions to avoid	:	Protect from frost, heat and sunlight.
Incompatible materials	:	Not applicable
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

Skin corrosion/irritation

Not classified due to lack of data.

Serious eye damage/eye irritation

Not classified due to lack of data.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



KRISTALEX™ 3070 Hydrocarbon Resin

Version
1.0

Revision Date:
09/03/2025

Date of last issue: -
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Respiratory or skin sensitization

Skin sensitization

Not classified due to lack of data.

Respiratory sensitization

Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Not classified due to lack of data.

STOT-single exposure

Not classified due to lack of data.

STOT-repeated exposure

Not classified due to lack of data.

Aspiration toxicity

Not classified due to lack of data.

Further information

Product:

Remarks : Information taken from reference works and the literature.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



KRISTALEX™ 3070 Hydrocarbon Resin

Version
1.0

Revision Date:
09/03/2025

Date of last issue: -
Date of first issue: 09/03/2025

Additional ecological information : Information given is based on data on the ingredients and the ecotoxicology of similar products.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of wastes in an approved waste disposal facility.
Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

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.

Domestic regulation

49 CFR

Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ethylbenzene	100-41-4	100	100 (F003)

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS 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 : Combustible dust

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.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



KRISTALEX™ 3070 Hydrocarbon Resin

Version
1.0

Revision Date:
09/03/2025

Date of last issue: -
Date of first issue: 09/03/2025

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain more than 1% of any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain more than 1% of any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

styrene	100-42-5	>= 0 - < 0.1 %
ethylbenzene	100-41-4	>= 0 - < 0.1 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

styrene	100-42-5	>= 0 - < 0.1 %
ethylbenzene	100-41-4	>= 0 - < 0.1 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

styrene	100-42-5
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Maine Chemicals of High Concern

styrene	100-42-5
ethylbenzene	100-41-4

Vermont Chemicals of High Concern

styrene	100-42-5
ethylbenzene	100-41-4

Washington Chemicals of High Concern

styrene	100-42-5
ethylbenzene	100-41-4

California Prop. 65

WARNING: This product can expose you to chemicals including 2-phenylpropene, styrene, ethylbenzene, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

TSCA list

No substances are subject to a Significant New Use Rule.

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

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



KRISTALEX™ 3070 Hydrocarbon Resin

Version
1.0

Revision Date:
09/03/2025

Date of last issue: -
Date of first issue: 09/03/2025

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AllC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; 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

Revision Date : 09/03/2025

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.

US / EN

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



KRISTALEX™ 3070 Hydrocarbon Resin

Version 1.0 Revision Date: 09/03/2025 Date of last issue: -
Date of first issue: 09/03/2025

SECTION 1. IDENTIFICATION

Product name : KRISTALEX™ 3070 Hydrocarbon Resin

Manufacturer or supplier's details

Company name of supplier : Synthomer Jefferson Hills LLC
Address : 2200 State Route 837
Jefferson Hills PA 15025
Emergency telephone : USA +1 866 928 0789 (toll free) // Americas # +1 215 207
0061 // Global (EN speaking only) +44 (0)1865 407333
NCEC's regional number (involves operator intervention to
identify language)

Recommended use of the chemical and restrictions on use

Recommended use : Adhesives
Raw material for industry

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

GHS label elements

Signal Word : WARNING
Hazard Statements : May form combustible dust concentrations in air.

Other hazards

Risk of dust explosion.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance
Substance name : Benzene, ethenyl-, polymer with (1-methylethenyl)benzeneN
CAS-No. : 9011-11-4

Components

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

General advice : Do not leave the victim unattended.
If inhaled : If unconscious, place in recovery position and seek medical
advice.
If symptoms persist, call a physician.
In case of skin contact : Take off contaminated clothing and shoes immediately.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



KRISTALEX™ 3070 Hydrocarbon Resin

Version 1.0 Revision Date: 09/03/2025 Date of last issue: -
Date of first issue: 09/03/2025

In case of eye contact : Wash off with soap and plenty of water.
: Remove contact lenses.
: Protect unharmed eye.
: If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
: Do not give milk or alcoholic beverages.
: Never give anything by mouth to an unconscious person.
: If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : None known.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : None known.

Hazardous combustion products : No hazardous combustion products are known

Further information : Standard procedure for chemical fires.
: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
: Avoid dust formation.

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust.
: Sweep up and shovel.
: Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.

Advice on safe handling : For personal protection see section 8.
: Smoking, eating and drinking should be prohibited in the ap-

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



KRISTALEX™ 3070 Hydrocarbon Resin

Version 1.0 Revision Date: 09/03/2025 Date of last issue: -
Date of first issue: 09/03/2025

- Conditions for safe storage : application area.
Keep in properly labeled containers.
Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : No materials to be especially mentioned.
- Further information on storage stability : No decomposition if stored and applied as directed.
-

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection
- Break through time : 480 min
 - Glove thickness : 0.1 - 0.4 mm
- Directive : Equipment should conform to EN 374
- Material : Nitrile rubber
- Eye protection : Safety glasses
- Skin and body protection : Protective suit
- Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.
- Hygiene measures : General industrial hygiene practice.
-

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : pellets
- Color : colorless
- Odor : slight
- Odor Threshold : No data available
- pH : No data available
- Melting point/freezing point : 158 °F / 70 °C
- Initial boiling point and boiling range : No data available
- Flash point : 282.9 °F / 139.4 °C
Method: closed cup
- Flammability (solid, gas) : May form combustible dust concentrations in air.
-

SAFETY DATA SHEET

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KRISTALEX™ 3070 Hydrocarbon Resin

Version	Revision Date:	Date of last issue: -
1.0	09/03/2025	Date of first issue: 09/03/2025

Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	Upper flammability limit No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	Not applicable
Relative density	:	1.09 (77 °F / 25 °C)
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	100 mPa.s (356 °F / 180 °C)
Viscosity, kinematic	:	91.74 mm ² /s (356 °F / 180 °C)

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Dust may form explosive mixture in air. With oxidizing agents possible. Stable under recommended storage conditions. No hazards to be specially mentioned. Dust may form explosive mixture in air.
Conditions to avoid	:	Protect from frost, heat and sunlight.
Incompatible materials	:	Not applicable
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

Skin corrosion/irritation

Not classified due to lack of data.

Serious eye damage/eye irritation

Not classified due to lack of data.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



KRISTALEX™ 3070 Hydrocarbon Resin

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Revision Date:
09/03/2025

Date of last issue: -
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Respiratory or skin sensitization

Skin sensitization

Not classified due to lack of data.

Respiratory sensitization

Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Not classified due to lack of data.

STOT-single exposure

Not classified due to lack of data.

STOT-repeated exposure

Not classified due to lack of data.

Aspiration toxicity

Not classified due to lack of data.

Further information

Product:

Remarks : Information taken from reference works and the literature.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



KRISTALEX™ 3070 Hydrocarbon Resin

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Revision Date:
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Additional ecological information : Information given is based on data on the ingredients and the ecotoxicology of similar products.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of wastes in an approved waste disposal facility.
Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

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.

Domestic regulation

49 CFR

Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ethylbenzene	100-41-4	100	100 (F003)

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS 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 : Combustible dust

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.

SAFETY DATA SHEET

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1.0

Revision Date:
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Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain more than 1% of any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain more than 1% of any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

styrene	100-42-5	>= 0 - < 0.1 %
ethylbenzene	100-41-4	>= 0 - < 0.1 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

styrene	100-42-5	>= 0 - < 0.1 %
ethylbenzene	100-41-4	>= 0 - < 0.1 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

styrene	100-42-5
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Maine Chemicals of High Concern

styrene	100-42-5
ethylbenzene	100-41-4

Vermont Chemicals of High Concern

styrene	100-42-5
ethylbenzene	100-41-4

Washington Chemicals of High Concern

styrene	100-42-5
ethylbenzene	100-41-4

California Prop. 65

WARNING: This product can expose you to chemicals including 2-phenylpropene, styrene, ethylbenzene, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

TSCA list

No substances are subject to a Significant New Use Rule.

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

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



KRISTALEX™ 3070 Hydrocarbon Resin

Version
1.0

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Date of last issue: -
Date of first issue: 09/03/2025

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AllC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; 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

Revision Date : 09/03/2025

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.

US / EN

KRISTALEX™ 3070

Hydrocarbon Resin

KRISTALEX™ 3070 Hydrocarbon Resin is a water-white, highly color stable, nonpolar, low molecular weight thermoplastic polymer. This resin is compatible with a wide variety of oils, waxes, alkyds, plastics, and elastomers, and is soluble in many common organic solvents. It is indicated for use in plastics modification, adhesives, coatings, sealants, and caulks. The low softening point of KRISTALEX™ 3070 Hydrocarbon Resin indicates its potential utility in systems where performance at low temperatures such as frozen food packaging and exterior-use sealants.

For further information regarding this product please refer to:

Synthomer Adhesive Technologies

eMail: Adhesive.Technologies@Synthomer.com

In EVA-based hot melt adhesives KRISTALEX™ 3070 Hydrocarbon Resin has useful compatibility with EVA grades with up to 30% vinyl acetate and is useful in formulating low-color adhesives with good low temperature properties. In adhesives based on styrenic block copolymers KRISTALEX™ 3070 is useful in reducing melt viscosity without affecting adhesion and tack properties.

- Excellent thermal stability
- Low softening point
- Made from purified aromatic monomers
- Water-white initial color

Property	Typical Value	Unit	Method ¹
Ring and Ball Softening Point	70	°C	ASTM E 28
Color, Yellowness Index	7		ASTM E 313, 50% solids in toluene
MMA cloud point	1	°C	from 1:2 mixture of methylcyclohexane and aniline
OMS (odorless mineral spirits) cloud point	11	°C	from Stoddard solvent
Molecular Weight, Mn	560	g/mol	GPC using polystyrene standards, elution with THF
Molecular Weight, Mw	880	g/mol	
Molecular Weight, Mz	1360	g/mol	
Polydispersity (Mw/Mn)	1.6		
Melt Viscosity at 85°C	1000	poise	Brookfield
Melt Viscosity at 95°C	100	poise	
Melt Viscosity at 115°C	10	poise	
Melt Viscosity at 145°C	1	poise	
Glass Transition Temperature (T _g -midpoint)	32	°C	DSC, 20°C/minute

¹ internal method based upon the specified norm

Applications

Adhesives, Assembly, Carpet, Caulks and Sealants, Film Modification, Graphic inks, Labels, Other coatings, Packaging Tapes, Plastic Modification, Roofing, Specialty Tapes, Wax Modification, Packaging

KRISTALEX™ 3070

Hydrocarbon Resin



Compatibility and Solubility

Compatible at all ratios, or in limited but practically useful proportions, with a wide variety of materials, including styrene-butadiene rubber (SBR) and SBR block copolymers; neoprene, nitrile, polybutadiene, and acrylic polymers; chlorinated rubber; EVA resins (ethylene-vinyl acetate copolymers); styrenated, vinylated, and drying oil alkyds; rosin ester resins; and EHEC (ethyl hydroxyethyl cellulose), as well as modifying the styrenic endblocks of all styrene-containing block copolymers.

Soluble in aliphatic, aromatic, and chlorinated hydrocarbons; esters; and ketones. Insoluble in alcohols and glycols. For low or zero VOC systems KRISTALEX™ 3070 Hydrocarbon Resin is soluble in the VOC exempt solvents acetone, methyl acetate, t-butyl acetate (TBA) and perchlorobenzenetetrafluoride (PCBTF) and will tolerate some acetone and/or methyl acetate as a diluent in solvent systems based on TBA and/or PCBTF. VOC exemptions and environmental regulations vary regionally and compliance with local standards should be verified before any claims about VOC content are made.

Packaging

Solid, in light-gauge metal drums (420 lbs, 190.5 kg, net.)

Storage

Due to the thermoplastic behavior, pastillated and flaked resins may fuse, block or lump. This can be accelerated under any of the following conditions: 1) above ambient temperature 2) prolonged storage 3) pressure, e.g., stacking pallets, or a combination of these conditions. This is particularly applicable for low softening point resin grades. In order to maintain the flake or pastille shape, we therefore recommend storing the material in a temperature-controlled area, be careful with stacking material or applying pressure and preventing prolonged storage. It should be noted that lumping does not have a negative impact on the product specifications. Due to the nature of the product, claims regarding lumping cannot be accepted.

Resins are prone to gradual oxidation, some more so than others. This could result in darkening and/or it could have an adverse effect on the solubility of the resin in organic solvents or on its compatibility with polymers. Accordingly, it is recommended that strict control of inventory be observed at all times, taking care that the oldest material is used first.

The useful life of this product can be affected by storage and handling conditions. When stored in the original unopened container in an enclosed area and protected from moisture, extreme temperatures and contamination, the shelf life of this product is estimated to continue to meet applicable sales specifications for 3 years from the date of manufacture. Shelf life is a guide not an absolute value. The product should be reanalyzed for critical properties at the end of its shelf life to see if it meets specification for use.

Comments

Properties reported here are typical of average lots. Synthomer makes no representation that the material in any particular shipment will conform exactly to the values given.