



SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard

NOVARES YT-C160

Version	Revision Date:	SDS Number:	Date of last issue: 04/30/2025
2.0	07/04/2025	300000000702	Date of first issue: 08/31/2023

SECTION 1. IDENTIFICATION

Product name : NOVARES YT-C160
Product code : 145251MW
Substance name : Coumarone-indene resins

CAS-No. : 63393-89-5

Manufacturer or supplier's details

Company name of supplier : Rain Carbon Germany GmbH
Address : Varziner Straße 49
Duisburg 47138
Germany

www.raincarbon.com

resins@raincarbon.com
www.novares.de

Telephone : +49203429602
E-mail address : sds@raincarbon.com

Emergency telephone : Emergency - Telephone - Number INTERNATIONAL (24-hour):
GBK GmbH, Ingelheim: +49 (0)61 32 / 84 463 (in national language)

DURING THE TRANSPORT ONLY:
24-hour-Emergency-Telephone-Number
GBK/INFOTRAC ID: 94482
(001) 352 323 3500 (International)
1 800 535 5053 (USA and Canada domestic)

In other cases: contact the manufacturer / supplier

Recommended use of the chemical and restrictions on use

Recommended use : Synthetic resin
Raw material for adhesives, sealants, coatings, printing inks
and rubbergoods

SECTION 2. HAZARDS IDENTIFICATION

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

Not a hazardous substance or mixture.



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GHS label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance
 Chemical nature : Polymer
 Substance name : Coumarone-indene resins
 CAS-No. : 63393-89-5

Components

Chemical name	CAS-No.	Concentration (% w/w)
Coumarone-indene resins	63393-89-5	100

SECTION 4. FIRST AID MEASURES

General advice : Remove victim from exposure and then have him lie down in the recovery position.

If inhaled : Move to fresh air.
 If unconscious, place in recovery position and seek medical advice.

In case of skin contact : In case of skin contact
 Wash off with soap and water.
 If symptoms persist, call a physician.

In case of eye contact : In case of eye contact
 Rinse with water.
 Seek medical advice.

If swallowed : If swallowed
 Rinse mouth with water.
 Do NOT induce vomiting.
 Obtain medical attention.

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

Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
 Avoid inhalation, ingestion and contact with skin and eyes.
 If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician : Therapeutically measures: basic help, decontamination, symptomatic treatment.



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SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide (CO₂)
Water spray in large fire situations
Foam
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : As the product contains combustible organic ingredients, fire will produce dense black smoke containing hazardous products of combustion (see section 10).
- Hazardous combustion products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
- Specific extinguishing methods : Cool containers/tanks with water spray.
- Further information : In the event of fire and/or explosion do not breathe fumes.

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 : Wear respiratory protection.
Immediately evacuate personnel to safe areas.
Refer to protective measures listed in sections 7 and 8.
Avoid dust formation.
For disposal considerations see section 13.
- Environmental precautions : Should not be released into the environment.
Prevent product from entering drains.
Do not allow contact with soil, surface or ground water.
- 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



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|---|---|--|
| Technical measures | : | Install appropriate equipment and wear appropriate personal protective equipment (see "8. Exposure control/personal protection"). |
| Advice on protection against fire and explosion | : | Provide appropriate exhaust ventilation at places where dust is formed. |
| Advice on safe handling | : | Use only with adequate ventilation/personal protection. Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8. |
| Conditions for safe storage | : | Keep in a well-ventilated place.
Keep tightly closed.
Electrical installations / working materials must comply with the technological safety standards. |
| Further information on storage conditions | : | Keep locked up or in an area accessible only to qualified or authorized persons. |
| Materials to avoid | : | Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. |
| Further information on storage stability | : | No decomposition if stored and applied as directed. |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

- | | |
|--------------------------------------|---|
| inert or nuisance dust | 50 Million particles per cubic foot |
| | Value type (Form of exposure): TWA (total dust) |
| | Basis: OSHA Z-3 |
| | 15 mg/m ³ |
| | Value type (Form of exposure): TWA (total dust) |
| | Basis: OSHA Z-3 |
| | 5 mg/m ³ |
| | Value type (Form of exposure): TWA (respirable fraction) |
| | Basis: OSHA Z-3 |
| | 15 Million particles per cubic foot |
| | Value type (Form of exposure): TWA (respirable fraction) |
| | Basis: OSHA Z-3 |
| Dust, nuisance dust and particulates | 10 mg/m ³ |
| | Value type (Form of exposure): PEL (Total dust) |
| | Basis: CAL PEL |
| | 5 mg/m ³ |
| | Value type (Form of exposure): PEL (respirable dust fraction) |



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Basis: CAL PEL

This product is delivered as granules or pellets. Nevertheless, dust particles (e.g., powder, nano particles, crystalline powder, fine powder) may be released unintentionally due to friction and additional mechanical influences during unloading, repackaging, and transport.

Where applicable, country-specific general dust occupational exposure limit values should be taken into account for individual risk assessment by customers and/or downstream users.

Contains no substances with occupational exposure limit values.

Engineering measures : Exhaust ventilation equipped with filters.

Personal protective equipment

Respiratory protection : In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air. In the case of vapor formation use a respirator with an approved filter.

Use only respiratory protection equipment with CE-symbol including four digit test number.

Respirator with a particle filter (EN 143)

Equipment should conform to EN 14387

ABEK-P3-filter

Filter type : Combined particulates, ammonia/amines, inorganic gas/vapor and organic vapor type
 General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Material : Nitrile rubber

Break through time : 240 - 480 min

Glove thickness : >= 0.425 mm

Material : butyl-rubber

Break through time : 240 - 480 min

Glove thickness : >= 0.7 mm

Remarks : Equipment should conform to EN 374 Protective gloves
 Follow the instructions for use issued by the producer.
 The exact break through time can be obtained from the protective glove producer and this has to be observed.



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Eye protection	:	Safety glasses with side-shields conforming to EN166
Skin and body protection	:	Protective work clothing (EN ISO 13688) Recommended preventive skin protection Use protective skin cream before handling the product. Remove and wash contaminated clothing before re-use.
Protective measures	:	Wear full protective clothing and self-contained breathing apparatus. Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
Hygiene measures	:	General industrial hygiene practice. Wash face, hands and any exposed skin thoroughly after handling. Remove all contaminated clothing under the shower.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	solid
Color	:	light yellow
Odor	:	characteristic
Odor Threshold	:	Not applicable
pH	:	Not applicable
Softening point / range	:	113 - 347 °F / 45 - 175 °C
Melting point/freezing point	:	not determined
Boiling point/boiling range	:	No data available
Flash point	:	> 302 °F / > 150 °C Method: DIN 51758
Evaporation rate	:	No data available
Flammability (solid, gas)	:	May form combustible dust concentrations in air.
Self-ignition	:	Product is not self-igniting
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapor pressure	:	< 0.01 hPa (68 °F / 20 °C)



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	Method: DIN 51754
Relative vapor density	: No data available
Relative density	: No data available
Density	: 1.12 - 1.15 g/cm ³ (68 °F / 20 °C) Method: DIN 51757
Bulk density	: No data available
Solubility(ies)	
Water solubility	: < 5 mg/l (68 °F / 20 °C)
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: > 842 °F / > 450 °C Method: DIN 51794
Decomposition temperature	: > 482 °F / > 250 °C
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Explosive properties	: May form explosive dust-air mixture during processing, handling or other means.
Self-heating substances	: The substance or mixture is not classified as self heating.
Molecular weight	: No data available
Particle characteristics	
Particle size	: Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid	: Exposure to moisture. Heat, flames and sparks.
Incompatible materials	: Oxidizing agents Strong acids and strong bases



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Hazardous decomposition products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

Components:

Coumarone-indene resins:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Components:

Coumarone-indene resins:

Species : Rabbit
Result : No skin irritation
Remarks : Analogy to structure-related substances.

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Components:

Coumarone-indene resins:

Species : Rabbit
Result : No eye irritation
Remarks : Analogy to structure-related substances.

Respiratory or skin sensitization

Skin sensitization

Based on available data, the classification criteria are not met.

Respiratory sensitization

Not classified due to lack of data.

Components:

Coumarone-indene resins:

Result : Not a skin sensitizer.



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Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

Not classified due to lack of data.

Components:

Coumarone-indene resins:

Remarks : Based on available data, the classification criteria are not met.

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 due to lack of data.

STOT-single exposure

Not classified due to lack of data.

Components:

Coumarone-indene resins:

Remarks : Based on available data, the classification criteria are not met.

STOT-repeated exposure

Not classified due to lack of data.

Components:

Coumarone-indene resins:

Remarks : Based on available data, the classification criteria are not met.

Aspiration toxicity

Not classified due to lack of data.



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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Coumarone-indene resins:

Toxicity to fish : LC50 (Fish): Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: nenhuma toxicidade a 10 g/L
Analogy to structure-related substances.

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 75.79 mg/l
Exposure time: 48 h
Remarks: NOVARES C30

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Persistence and degradability

Components:

Coumarone-indene resins:

Biodegradability : Result: Not biodegradable
Method: OECD Test Guideline 301D
Remarks: Analogy to structure-related substances.

Bioaccumulative potential

No data available

Mobility in soil

Components:

Coumarone-indene resins:

Distribution among environmental compartments : Medium: Soil
Remarks: immobile

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I



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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).

Components:

Coumarone-indene resins:

Environmental fate and pathways : Do not allow product to reach ground water, water bodies or sewage system.

Results of PBT and vPvB assessment : Remarks: Not applicable

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.
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



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SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

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.

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 any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain 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:

Naphthalene	91-20-3	>= 0 - < 0.1 %
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The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Naphthalene	91-20-3	>= 0 - < 0.1 %
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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

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

Pennsylvania Right To Know

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Maine Chemicals of High Concern

Product does not contain any listed chemicals



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Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Prop. 65

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

The ingredients of this product are reported in the following inventories:

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AIIC	:	On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	On the inventory, or in compliance with the inventory
TECI	:	On the inventory, or in compliance with the 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



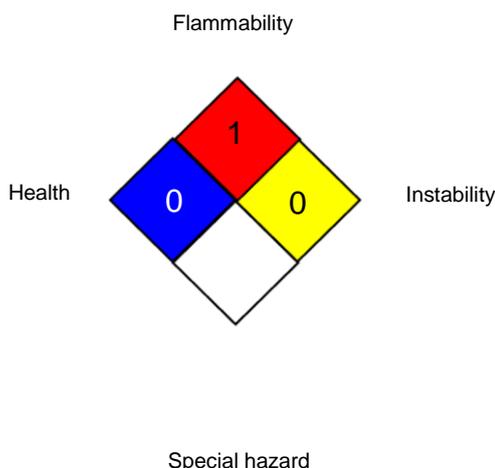
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NFPA 704:



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.

Full text of other abbreviations

- CAL PEL : California permissible exposure limits for chemical contaminants (Title 8, Article 107)
- CAL PEL / PEL : Permissible exposure limit
- OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts

AIIC - 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



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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; TECl - 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

none

Sources of key data used to compile the Material Safety Data Sheet : Information taken from reference works and the literature., Information derived from practical experience., ECHA (European Chemicals Agency) - <https://echa.europa.eu/home>, Gefahrstoffinformationssystem (GESTIS) - <https://www.dguv.de/ifa/gestis/index.jsp>

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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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