



SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard

NOVARES YT-C10

Version	Revision Date:	SDS Number:	Date of last issue: 08/17/2023
2.1	04/24/2025	300000000500	Date of first issue: 03/03/2023

SECTION 1. IDENTIFICATION

Product name : NOVARES YT-C10
Product code : 143950MW
CAS-No. : 71302-83-5

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)

Skin sensitization : Sub-category 1A

Short-term (acute) aquatic hazard : Category 3



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Long-term (chronic) aquatic hazard : Category 3

GHS label elements

Hazard pictograms : 

Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.
H402 Harmful to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**
P261 Avoid breathing mist or vapors.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

Elevated storage- and transport temperature (80 °C) possible.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance
Chemical nature : organic
Substance of unknown or variable composition, complex reaction products or biological material (UVCB)

Components

Chemical name	CAS-No.	Concentration (% w/w)
Hydrocarbons, C9-unsatd., polymd.	71302-83-5	100

SECTION 4. FIRST AID MEASURES



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General advice	:	Do not leave the victim unattended. Remove victim from exposure and then have him lie down in the recovery position.
If inhaled	:	Take off all contaminated clothing immediately. Give oxygen. If symptoms persist, call a physician. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	:	Cool melted product on skin with plenty of water. Do not remove solidified product. Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact	:	Rinse thoroughly with plenty of water, also under the eyelids. Seek medical advice.
If swallowed	:	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Call a physician immediately.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction.
Notes to physician	:	Therapeutically measures: basic help, decontamination, symptomatic treatment.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Extinguishing powder or water jet. Fight larger fire with foam
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
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. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment	:	Wear self-contained breathing apparatus for firefighting if



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for fire-fighters necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Keep people away from and upwind of spill/leak.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Ensure adequate ventilation.
- Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Technical measures : Install appropriate equipment and wear appropriate personal protective equipment (see "8. Exposure control/personal protection").
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Ensure adequate ventilation.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Take measures to prevent the build up of electrostatic charge.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : No decomposition if stored and applied as directed.



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

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. Equipment should conform to EN 14387

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
Heat protection gloves (EN 407) 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.

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles

Skin and body protection : Equipment should conform to EN 166
Protective work clothing (EN ISO 13688)
Protective measures : Take off all contaminated clothing immediately.

Recommended preventive skin protection
Wash hands before breaks and at the end of workday.
Hygiene measures : General industrial hygiene practice.
Wash face, hands and any exposed skin thoroughly after handling.
Remove all contaminated clothing under the shower.
When using do not eat or drink.
When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Color : light yellow
Odor : characteristic



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pH	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	> 554 °F / > 290 °C
Flash point	:	> 302 °F / > 150 °C
		Method: DIN 51758
Flammability (solid, gas)	:	The product is not flammable.
Self-ignition	:	Product is not self-igniting
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	< 1.5 Pa (68 °F / 20 °C)
		Method: OECD Test Guideline 104
Relative vapor density	:	No data available
Density	:	1.00 - 1.10 g/cm ³ (68 °F / 20 °C)
		Method: DIN 51757
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	> 707 °F / > 375 °C
		Method: DIN 51794
Decomposition temperature	:	Not applicable
Viscosity		
Viscosity, dynamic	:	50 - 10,000 mPa.s (77 °F / 25 °C)
		Method: DIN 53019
Viscosity, kinematic	:	No data available

SECTION 10. STABILITY AND REACTIVITY



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Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Strong acids and strong bases Strong oxidizing agents
Hazardous decomposition products	:	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute dermal toxicity : Acute toxicity estimate: 2,525 mg/kg
Method: Calculation method

Components:

Hydrocarbons, C9-unsatd., polymd.:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 423
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC0 (Rat): 5 mg/l
Exposure time: 4 h
Test atmosphere: aerosol
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Early embryonic development (Rat): 1000 mg/kg bw/day
Remarks: Analogy to structure-related substances.

Skin corrosion/irritation

Not classified based on available information.

Components:

Hydrocarbons, C9-unsatd., polymd.:

Species : Rabbit



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Method : OECD Test Guideline 404
Result : No skin irritation
Remarks : Analogy to structure-related substances.

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Hydrocarbons, C9-unsatd., polymd.:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405
Remarks : Analogy to structure-related substances.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Product:

Result : The product is a skin sensitizer, sub-category 1A.
Remarks : Causes sensitization.

Components:

Hydrocarbons, C9-unsatd., polymd.:

Test Type : Local lymph node assay (LLNA)
Routes of exposure : Skin contact
Species : Mouse
Method : OECD Test Guideline 429
Result : The product is a skin sensitizer, sub-category 1A.
GLP : yes

Germ cell mutagenicity

Not classified based on available information.

Components:

Hydrocarbons, C9-unsatd., polymd.:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)
Test system: Salmonella typhimurium
Method: OECD Test Guideline 471
Result: negative



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Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative

Genotoxicity in vivo : Test Type: gene mutation test
Species: Mouse
Method: OECD Test Guideline 476
Result: negative

Test Type: Micronucleus test
Species: Mouse
Method: OECD Test Guideline 474
Result: negative
Remarks: Analogy to structure-related substances.

Carcinogenicity

Not classified based on available information.

Product:

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

Components:

Hydrocarbons, C9-unsatd., polymd.:

Remarks : Not classified due to data which are conclusive although insufficient for classification.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Product:

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

Components:

Hydrocarbons, C9-unsatd., polymd.:



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Effects on fertility : Remarks: Not classified due to data which are conclusive although insufficient for classification.

Effects on fetal development : Remarks: Not classified due to data which are conclusive although insufficient for classification.

STOT-single exposure

Not classified based on available information.

Product:

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

STOT-repeated exposure

Not classified based on available information.

Product:

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

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Hydrocarbons, C9-unsatd., polyimd.:

Toxicity to fish : LL50 (Fish): 25.8 mg/l
 Exposure time: 96 h
 Method: OECD Test Guideline 203
 Remarks: Analogy to structure-related substances.

Toxicity to daphnia and other : EL50 (Daphnia): 54 mg/l
 aquatic invertebrates : Exposure time: 48 h
 Method: OECD Test Guideline 202

Toxicity to algae/aquatic : EL50 (algae): > 100 mg/l
 plants : Exposure time: 72 h
 Method: OECD Test Guideline 201



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Ecotoxicology Assessment

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

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Persistence and degradability

Components:

Hydrocarbons, C9-unsatd., polymd.:

Biodegradability : Result: not rapidly degradable

Bioaccumulative potential

Components:

Hydrocarbons, C9-unsatd., polymd.:

Bioaccumulation : Bioconcentration factor (BCF): > 500

Partition coefficient: n-octanol/water : log Pow: >= 5.9

Mobility in soil

Components:

Hydrocarbons, C9-unsatd., polymd.:

Distribution among environmental compartments : Adsorption/Soil Medium: Soil
Koc: >= 5.5
Remarks: Slightly mobile in soils

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).

Additional ecological information : Do not allow product to reach ground water, water bodies or sewage system.



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Components:

Hydrocarbons, C9-unsatd., polymd.:

Results of PBT and vPvB 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.

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Remove according to local authority recommendations, e.g. convey to a licensed incinerator.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.

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

This material does not contain any components with a CERCLA 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 : Respiratory or skin sensitization

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 I Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

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

Hydrocarbons, C9-unsatd., polymd. 71302-83-5

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern



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Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

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
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
IECSC	:	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



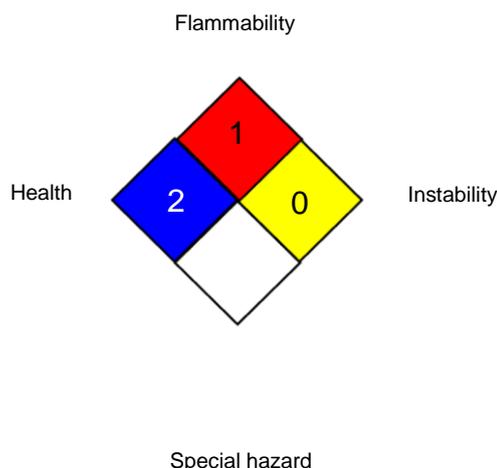
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NFPA 704:



HMIS® IV:

HEALTH	/	2
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

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 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 concern-



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ing 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

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., REACH Dossier(s) according to EC 1907/2006

Revision Date : 04/24/2025

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.

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