



SAFETY DATA SHEET
According to 29CFR 1910.1200

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: WR8000
Product Description: Thermoplastic copolyester, see Section 16 for applicable grades.
Intended Use: Adhesive component, Coating.

COMPANY IDENTIFICATION

Supplier: RhinoTech
2955 Lone Oak Circle
Suite 2
Eagan, MN 551221

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Mixture
CAS No. Description
Copolyester

SECTION 3 HAZARDS IDENTIFICATION

Classification of the substance or mixture: The mixture is not classified according to the Globally Harmonized System (GHS).

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Void
Information concerning particular hazards for human and environment: The product does not have to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Label elements

GHS label elements Void
Hazard pictograms Void
Signal word Void
Hazard statements Void

Classification system:

NFPA ratings (scale 0 - 4)
Health = 0
Fire = 1
Reactivity = 0
HMIS-ratings (scale 0 - 4)
Health = 0
Fire = 1
Reactivity = 0

SECTION 4 FIRST AID MEASURES



INHALATION

At ambient/normal handling temperatures, no adverse effects due to inhalation of dust are expected. In case of adverse exposure to vapors and / or aerosols formed at elevated temperatures, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Seek medical treatment in case of complaints.

SKIN CONTACT

For hot product: Immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Do not pull solidified product away from the skin. Cover with clean cotton sheeting or gauze and get prompt medical attention. Generally the product does not irritate the skin.

EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION

No adverse effects due to ingestion are expected. If symptoms persist after swallowing, consult a doctor.

INFORMATION FOR DOCTOR: Most important symptoms and effects, both acute and delayed

No further relevant information available.

SECTION 5	FIRE FIGHTING MEASURES
------------------	-------------------------------

EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

FIRE FIGHTING

Fire Fighting Instructions: Assure an extended cooling down period to prevent re-ignition. Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards: Explosion: Avoid generating dust; fine dust dispersed in air in sufficient concentration and in the presence of an ignition source is a potential dust explosion hazard.

Hazardous Combustion Products: Smoke, Fume, Incomplete combustion products, Oxides of carbon

SECTION 6	ACCIDENTAL RELEASE MEASURES
------------------	------------------------------------

Personal precautions, protective equipment and emergency procedures: Not required.

Environmental precautions: No special measures required.

Methods and material for containment and cleaning up: Pick up mechanically.

Reference to other sections: No dangerous substances are released.



SECTION 7 HANDLING AND STORAGE

HANDLING

Precautions for safe handling: No special measures required.

Information about protection against explosions and fires: Keep ignition sources away. Do not smoke. Protect against electrostatic charges. Dust can combine with air to form an explosive mixture.

STORAGE

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical systems: No further data; see item 7.

Components with limit values that require monitoring at the workplace:

General dust limit values for airborne particles are PEL (OSHA) = 15 mg/m³ (inhalable fraction, TWA)

and PEL (OSHA) = 5 mg/m³ (respirable fraction, TWA).

Personal protective equipment:

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

Protection of hands: Protective gloves

Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

GENERAL INFORMATION

Physical State: Solid

Form: Powder

Color: Clear to Opaque, White to Off-White

Odor: Nearly odorless

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 68 °F): > 1

Flash Point [Method]: N/A

Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D

Autoignition Temperature: N/A

Danger of explosion: Risk of dust explosion

Solubility in Water: Negligible



OTHER INFORMATION

Freezing Point: N/D

Melting Point: 149 °F – 293 °F

Decomposition Temperature: > 662 °F

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

INCOMPATIBLE MATERIALS: No further relevant information available.

HAZARDOUS DECOMPOSITION PRODUCTS: No dangerous decomposition products known.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Primary irritant effect:

On the skin: No irritant effect.

On the eye: No irritant effect.

Sensitization: No sensitizing effects known.

Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Carcinogenic categories

IARC (International Agency for Research on Cancer): Substance is not listed.

NTP (National Toxicology Program): Substance is not listed.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential: No further relevant information available.

Additional ecological information:

General notes: Generally not hazardous for water

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods:

Recommendation: On the basis of the necessary technical regulations and after consultation with the disposal agent and the relevant authorities, can be disposed of with domestic waste or incinerated with domestic waste.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

SECTION 14 TRANSPORT INFORMATION

UN-Number:

DOT, ADR, ADN, IMDG, IATA: Void

UN proper shipping name:

DOT, ADN, IMDG, IATA: Void



ADR: Void
Transport hazard class(es):
DOT, ADR, ADN, IMDG, IATA: Void
Packing Group:
DOT, ADR, IMDG, IATA: Void
Environmental hazards:
Marine pollutant: No
Special precautions for user: Not applicable.
Transport/Additional information: Not dangerous according to ADR/RID/IMDG/IATA.
UN "Model Regulation": -

SECTION 15	REGULATORY INFORMATION
-------------------	-------------------------------

Sara:
Section 355 (extremely hazardous substances): Substance is not listed.
Section 313 (Specific toxic chemical listings): Substance is not listed.

TSCA (Toxic Substances Control Act): All ingredients are listed. Substance is listed.

Proposition 65:
Chemicals known to cause cancer: Substance is not listed.
Chemicals known to cause reproductive toxicity for females: Substance is not listed.
Chemicals known to cause reproductive toxicity for males: Substance is not listed.
Chemicals known to cause developmental toxicity: Substance is not listed.

Cancerogenity categories:
EPA (Environmental Protection Agency): Substance is not listed.
NIOSH-Ca (National Institute for Occupational Safety and Health): Substance is not listed.
OSHA-Ca (Occupational Safety & Health Administration): Substance is not listed.

GHS label elements: Void
Hazard pictograms: Void
Signal word: Void
Hazard statements: Void

National regulations:
Water hazard class: Generally not hazardous for water.

SECTION 16	OTHER INFORMATION
-------------------	--------------------------

Revision Indicators This MSDS has no revisions since 01 September 2014

THIS SDS COVERS THE FOLLOWING MATERIALS: Unex PES resins, for which the grade name consists of a base polymer that may or may not be followed by a suffix. Applicable designations follow:
Base polymers : PES T2 / PES T3 / PES T4 / PES T5 / PES T6 / PES T7 / PES T14 / 14045 / 15043

Suffixes: M / FR25XPC / FR30XMC / NOB / 40%ORANGE / 15%BLUE

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:	
Acronym	Full text
ADR	European Agreement concerning the international carriage of dangerous goods by road
ADN	European Agreement concerning the international carriage of dangerous goods by inland waterways
AICS	Australian Inventory of Chemical Substances
AIHA WEEL	American Industrial Hygiene Association Workplace Environmental Exposure Limits
ASTM	ASTM International, originally known as the American Society for Testing and Materials (ASTM)
ATP	Adaptation to technical progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	Closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute of Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
DSL	Domestic Substance List (Canada)
EC	Effective Concentration
EC50	Half maximal effective concentration
EINECS	European Inventory of Existing Commercial Substances
EL	Effective Loading
ELINCS	European List of Notified Chemical Substances
ENCS	Existing and new Chemical Substances (Japanese inventory)
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
CHS	Globally Harmonised System
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Dangerous Goods
ISO	International Organization for Standardization
KECI	Korean Existing Chemicals Inventory
LC	Lethal Concentration
LD	Lethal Dose
LL	Lethal Loading
LOAEL	Lowest Observable Adverse Effect Level
LOEL	Lowest Observable Effect Level
N/A	Not applicable
N/D	Not determined
NE	Not established
NDSL	Non-Domestic Substances List (Canada)
NOAEL	No Observable Adverse Effect Level
NOEC	No Observable Effect Concentration
NOEL	No Observable Effect Level
NOELR	No Observable Effect Loading Rate
NZIoC	New Zealand Inventory of Chemicals
o.c.	Open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit



PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNEC	Predicted no effect concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TLV	Threshold Limit Value (American Conference of Governmental Industrial Hygienists)
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
TSCA	Toxic Substances Control Act (U.S. inventory)
UVCB	Substances of Unknown or Variable composition, Complex reaction products or Biological materials
VCI	German chemical industry association
vPvB	Very persistent, very bioaccumulative
VOC	Volatile Organic Compound
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organisation

Disclaimer of responsibility

The information provided in this document is generated for the purpose of distributing health, safety and environmental data. It is not a specification sheet nor should any displayed data be construed as a specification.

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and we do not assume responsibility and expressly disclaim liability for loss, damage or expense connected with them.