

MATERIAL SAFETY DATA SHEET (MSDS)



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PRODUCT AND COMPANY INFORMATION:

Name: Nova Pfu DNA Polymerase

Reference: AB12027; AB12028; AB12029

Manufacturer: Genova Scientific S.L., C/ Johann Gutenberg, 4F. Pol. Ind. El Cafamo I. 41300 San Jose de La Rinconada. Sevilla, SPAIN

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Emergency Tel.: Please contact the nearest Toxicology and Antivenin Center.

Regulation: According to regulation (EC) No.1907/2006 (Reach).

Intent of use: For research use only.

INFORMATION ABOUT COMPONENTS

Description: This product contains molecular biology reagents intended for use by professional laboratory personnel that have been properly trained in its use.

Dangerous substances in the preparation:

-COMPONENT: Pfu DNA Polymerase CAS: 9012-90-2

MOLECULAR WEIGHT: 90,00 % by wt: -

-COMPONENT: Glycerol CAS: 56-81-5

MOLECULAR WEIGHT: 92,08 % by wt: 50%

-COMPONENT: Tris HCl CAS: 1185-53-1

MOLECULAR WEIGHT: 121,14 % by wt: ≤ 1%

-COMPONENT: KCl CAS: 7447-40-7

MOLECULAR WEIGHT: 74,55 % by wt: ≤ 1%

-COMPONENT: Dithiothreitol CAS: 26628-22-8

MOLECULAR WEIGHT: 154,25 % by wt: ≤ 1%

-COMPONENT: EDTA CAS: 60-00-4

MOLECULAR WEIGHT: 292,24 % by wt: ≤ 1%

-COMPONENT: NP-40 CAS: 127087-87-0

MOLECULAR WEIGHT: 306,00 % by wt: ≤ 1%

-COMPONENT: Tween 20 CAS: 9005-64-5

MOLECULAR WEIGHT: 1227,54 % by wt: ≤ 1%

HAZARDS IDENTIFICATION

The toxicity information that follows describes the hazards associated with probes and reagents. To the best of our knowledge, no other hazards are associated with this product.

-H302: Harmful if swallowed.

-H315: Causes skin irritation.

-H319: Causes serious eye irritation.

FIRST AID MEASURES

-Symptoms of poisoning may even occur after several hours; therefore provide medical observation for at least 48 hour after accident.

-After inhalation: Remove to fresh air. If individual is not breathing, give artificial respiration and obtain medical attention.

-After skin contact: Immediately wash with copious amounts of water while removing contaminated clothing.

-After eye contact: Rinse opened eye for 15 minutes under running water. Have victim remove contact lenses. Be sure to wash under eyelids. Seek medical advice.

-After swallowing: Wash out mouth with water and seek medical advice immediately showing the container or label of the product.

FIRE FIGHTING MEASURES

Extinguishing media

-Water spray

-Carbon dioxide, dry chemical powder or appropriate foam

Special firefighting procedures

- Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosions hazards

-Probes and reagents upon thermal decomposition may emit toxic gases, including nitrogen oxides. However, due to the composition and volume of this product, combustion products generated from it are not expected to present a significant hazard.

ACCIDENTAL RELEASE MEASURES

-Wear protective equipment.

-Absorb with liquid-binding material and placed in closed containers for disposal. Avoid generation of aerosols during clean up.
-Ventilate area and wash spill site after material pickup is complete.

HANDLING AND STORAGE

Handling precautions

-Avoid inhaling, ingestion and contact with eyes and skin.

Storage

-Requirements to be met by storerooms and receptacles:

No special requirements

-Information about storage in one common storage facility:

Do not store together with oxidizing and acidic materials as well as heavy-metal compounds.

-Further information about storage conditions: None

EXPOSURE CONTROLS AND PERSONAL PROTECTION

-Components with limit values that require monitoring at the workplace: N/A

-Engineering controls: Not required.

-Respiratory protection: If irritating vapors are produced, respiratory protection is recommended. Attempt to reduce exposure levels to an acceptable range.

-Eye protection: Safety glasses

-Body protection: Protective work clothing; impervious gloves, such as latex or equivalent, should be worn to prevent skin contact

PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Colour: Mainly colourless, depending upon the specific product.

Odour: Odourless

Change in condition:

Melting point: Not determined

Boiling point: Not determined

Flash point: Not applicable

Danger of explosion: Not applicable

Vapour pressure: Not available

Density: Not determined

Solubility in water: Soluble

pH: Not determined, depending upon the specific product.

STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures

Material to be avoided: Not applicable

Dangerous decompositions products: Not applicable

Additional information: Not applicable

TOXICOLOGICAL INFORMATION

Acute toxicity for hazardous ingredients:

-LD50 Oral Rat, 12600 mg/kg

-LC50 Inhaled Rat, > 570 mg/m³/h

-LD50 Oral Mus, 4090 mg/kg

-LD50 Oral Rab, 27 mg/kg

-LD50 Skin Rab, >10 mg/kg

-LD50 Oral Gpg, 7750 mg/kg

Although its concentration in this product is low, enzyme and reagents are harmful if swallowed, inhaled or absorbed through skin. Potential effects of chronic exposure to the product.

Prolonged or repeated exposure may result in pounding headaches, eye and nose irritation, low blood pressure, fatigue and dizziness.



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ECOLOGICAL INFORMATION

Not yet available

DISPOSAL CONSIDERATIONS

Recommendation: Smaller quantities can be disposed of with household waste. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with combustible solvent and burn in chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

Uncleaned packagings:

-Recommendation: Disposal must be according to federal, state and local regulations.

-Recommended cleansing agent: Water, if necessary with cleansing agents.

TRANSPORT INFORMATION

RID /ADR: Non-hazardous for road transport.

IMDG: Non-hazardous for sea transport.

ICAO/IATA: Non-hazardous for air transport.

REGULATORY INFORMATION

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Hazard symbols: Xn Harmful

Hazard-determining components of labelling: probes and reagents

Risk phrases associated to the product:

H302: Harmful if swallowed.

H315: Causes skin irritation

H319: Causes serious eye irritation.

Safety phrases associated to the product:

P201: Obtain special instructions before use.

P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P280: Wear protective gloves/ eye protection/ face protection.

P305 + P351 + P338: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P311: Call a POISON CENTER or doctor/ physician.

OTHER INFORMATION

The above information represents the best information currently available for us. However this reagent may present unknown hazards and should be used with caution. Independent professional opinions regarding the risk or exposure to this solution are the responsibility of the user.

Gennova Scientific S.L., is at your disposal for further information and additional explanation.

