



**SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**1.1. Product Identifier:**

**Product Name** IntelliPlex EGFR Mutation Kit  
**Product Code** 82006

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses** For professional users only.

**1.3. Details of the supplier of the safety data sheet**

**Manufacturer/Supplier:** PlexBio Co., Ltd.  
6F-1, No. 351 Yangguang Street, Neihu District, Taipei 114 Taiwan, R.O.C.  
Tel: (02) 2627-5878 Fax: (02) 2627-5979

**1.4 Emergency telephone number**

**Emergency Phone #**

**SECTION 2: HAZARD IDENTIFICATION**

**2.1 Classification of the substance or mixture**

The product is a kit consisting of individual ingredients listed in section 3.  
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**2.2 GHS Label elements, including precautionary statements:**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**2.3 Other hazards**

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.

**SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS**

Kit Contents	Known Hazardous Components	CAS-No.	Concentration
EGFR Reaction Mix	Glycerol (Not Hazardous)	56-81-5	1-5%
EGFR Primer Mix	Not Hazardous	-	-
EGFR Positive Control	Not Hazardous	-	-
NEG Control	Not Hazardous	-	-
EGFR KIT Assay Plate	Sodium azide	26628-22-8	0.05%
	Glycerol (Not Hazardous)	56-81-5	20-30%

The concentration or concentration ranges of all ingredients which are hazardous within the meaning of the GHS are present below their cut-off levels. No components need to be disclosed according to the applicable regulations.

**Component: Sodium azide**

Formula NaN<sub>3</sub>  
Cas-No 26628-22-8  
EC-No 247-852-1  
Index-No. 011-004-00-7

**Classification**

Acute Tox. 2 (H300); Acute Tox. 1 (H310);  
STOT RE 2 (H373); Aquatic Acute 1 (H400);  
Aquatic Chronic 1 (H410)  
(EUH032)

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### SECTION 4: FIRST AID MEASURES

##### 4.1 Description of first aid measures

**General information:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Eye Contact:** Flush eyes with water as a precaution. Remove contact lenses. Consult a physician.

**Skin Contact:** Wash off with soap and plenty of water. Consult a physician.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

##### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2, section 3 and/or in section 11

##### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

#### SECTION 5: FIRE AND EXPLOSION DATA

##### 5.1 Extinguishing media

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

##### 5.2 Special hazards arising from the substance or mixture

Not flammable or combustible.

##### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

##### 5.4 Further information

Hazardous decomposition products formed under fire conditions: Sodium oxides.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

##### 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For handling and storage refer to section 7. For personal protection see section 8.

##### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

##### 6.3 Methods and materials for containment and cleaning up

Take up mechanically and collect in suitable container for disposal.

##### 6.4 Reference to other sections

For handling and storage refer to section 7. For personal protection see section 8. For disposal see section 13.

#### SECTION 7: HANDLING AND STORAGE

##### 7.1 – Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

##### 7.2 – Conditions for safe storage, including anything that is incompatible

Keep container tightly closed in a dry and well-ventilated place. Refer to product label.

**7.3 – Specific end use(s)**  
Refer to section 1.2

**SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**8.1 Control parameters**  
**United States of America**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
<b>Sodium azide</b>	Ceiling: 0.29 mg/m <sup>3</sup> Ceiling: 0.11 ppm	Skin (Vacated) Ceiling: 0.1 ppm (Vacated) Ceiling: 0.3 mg/m <sup>3</sup>	Ceiling: 0.1 ppm Ceiling: 0.3 mg/m <sup>3</sup>
<b>Glycerol</b>		(Vacated) TWA: 10 mg/m <sup>3</sup> (Vacated) TWA: 5 mg/m <sup>3</sup> TWA: 15 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	

ACGIH - American Conference of Governmental Industrial Hygienists  
OSHA - Occupational Safety and Health Administration  
NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

**European Union**

Component	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
<b>Sodium Azide</b>	<b>26628-22-8</b>	<b>TWA</b>	<b>0.1 mg/m3</b>	<b>2000/39/EC and 2006/15/EC</b>
<b>Further information</b>	<b>Identifies the possibility of significant uptake through the skin, Indicative</b>	<b>STEL</b>	<b>0.3 mg/m3</b>	<b>2000/39/EC and 2006/15/EC</b>
<b>Further information</b>	<b>Identifies the possibility of significant uptake through the skin, Indicative</b>	<b>AGW</b>	<b>0.2 mg/m3</b>	<b>DE TRGS 900</b>
<b>Glycerol</b>	<b>56-81-5</b>	<b>AGW (Inhalable fraction)</b>	<b>200 mg/m3</b>	<b>DE TRGS 900</b>
		<b>TWA</b>	<b>10 mg/m3</b>	<b>TLV-ACGIH</b>

**8.2 Exposure controls**

**Appropriate engineering controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal protective equipment**

Follow usual standard laboratory practices. Use appropriate chemical resistant gloves, appropriate safety glasses and wear protective work clothing.

**Eye Protection**

Goggles (European standard - EN 166)



**Hand Protection**

Protective gloves (Natural rubber, Nitrile rubber, Neoprene, PVC; Breakthrough time see manufacturers information; EU standard EN 374)

**Skin and body protection**

Long sleeved clothing

**Respiratory protection**

When working with concentrations above the exposure limit use engineering controls and air-purifying respirators (full-face particle respirator type N100 (US) or type P3 (EN 143)). Use a full-face supplied air respirator if no engineered controls are utilized. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Environmental exposure controls**

Prevent leakage or spillage. Discharge into the environment must be avoided.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

EGFR KIT Reaction Mix; EGFR KIT Primer Mix; EGFR KIT Hy Buffer; SA-PE solution; EGFR KIT POS Control; EGFR KIT NEG Control; EGFR KIT  $\pi$ Code MicroDisc; EGFR KIT 10X Assay Wash Buffer

<b>Physical State and Appearance:</b>	Liquid.	<b>Vapor Pressure:</b>	Not available.
<b>Odor:</b>	Not available.	<b>Vapor Density:</b>	Not available.
<b>Taste:</b>	Not available.	<b>Volatility:</b>	Not available.
<b>pH (1% soln/water):</b>	Not available.	<b>Odor Threshold:</b>	Not available.
<b>Boiling Point:</b>	Not available.	<b>Water/Oil Dist. Coeff.:</b>	Not available.
<b>Melting Point:</b>	Not available.	<b>Ionicity (in Water):</b>	Not available.
<b>Critical Temperature:</b>	Not available.	<b>Dispersion Properties:</b>	Not available.
<b>Specific Gravity:</b>	Not available.	<b>Solubility:</b>	Not available.

**9.2 Other safety information**

Not available

**SECTION 10: STABILITY AND REACTIVITY DATA**

<b>10.1 Reactivity:</b>	The product is stable under recommended shipping and storage conditions.
<b>10.2 Chemical Stability:</b>	The product is stable under recommended shipping and storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	Will not occur.
<b>10.4 Conditions to Avoid</b>	Excess heat
<b>10.5 Incompatible materials</b>	Strong acids/alkalis, strong oxidizing/reducing agents.
<b>10.6 Hazardous decomposition products</b>	Not available.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

<b>Acute toxicity:</b>	Not classified based on available information.
Ingredients	
Sodium Azide	Acute toxicity LD50 Oral - Rat - 27 mg/kg
Glycerol	Acute toxicity LD50 Oral - Rat - 12600 mg/kg



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

IntelliPlex EGFR Mutation Kit

Ver. 05 08/25/2020

Tween20	LD50 Dermal - Rabbit - > 10000 mg/kg
<b>Eye Contact:</b>	LD50 Oral - Rat - 36700 mg/kg
<b>Skin Contact:</b>	May cause eye irritation.
<b>Inhalation:</b>	May cause skin irritation.
<b>Ingestion:</b>	May cause irritation of respiratory tract.
<b>Carcinogenic Effects:</b>	May be harmful if swallowed.
	<b>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</b>
	<b>ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.</b>
	<b>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.</b>
	<b>OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.</b>
<b>Mutagenic Effects:</b>	Not available.
<b>Reproduction Toxicity:</b>	Not available.
<b>Sensitization:</b>	Not available.
<b>STOT - Single exposure</b>	Not determined
<b>STOT - Repeated exposure</b>	Not determined
<b>Additional Information:</b>	RTECS: VY8050000; MA8050000; TR7400000

## SECTION 12: ECOLOGICAL INFORMATION

<b>12.1 Toxicity:</b>	Not classified based on available information.
<b>12.2 Persistence and degradability:</b>	Not available.
<b>12.3 Bioaccumulative potential:</b>	Not available.
<b>12.4 Mobility in soil:</b>	Not available.
<b>12.5 Results of PBT and vPvB assessment:</b>	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.
<b>12.6 Other adverse effects:</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Potentially toxic to aquatic life.

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>13.1 Waste treatment methods</b>	
<b>Product:</b>	Offer surplus and non-recyclable solutions to a licensed disposal company.
<b>Contaminated packaging:</b>	Dispose of as unused product.

## SECTION 14: TRANSPORT INFORMATION

<b>14.1 – UN Number</b>	<b>Not regulated</b>
<b>14.2 – Proper shipping name</b>	<b>Not regulated</b>
<b>14.3 – Hazard class</b>	<b>Not regulated</b>
<b>14.4 – Packing group</b>	<b>Not regulated</b>
<b>14.5 – Environmental hazards</b>	<b>Not regulated</b>
<b>14.6 – Special precautions for the user</b>	<b>Not regulated</b>



**14.7 – Transport in bulk information**                      **Not regulated**

**SECTION 15: OTHER REGULATORY INFORMATION**

**European Union:**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Contains no REACH substances with Annex XVII restrictions. Contains no substance on the REACH candidate list.  
Contains no REACH Annex XIV substances.

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

**United States of America:**

**Regulatory Status Classified in accordance with Appendix A, Appendix B and Appendix F of the OSHA Hazard**

**Communication Standard 29 CFR §1910.1200. Regulatory References OSHA Hazard Communication Standard 29 CFR §1910.1200**

**All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory**

**SARA 302 Components**

**No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.**

**SARA 313 Components**

**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.**

**SARA 311/312 Hazards**

**See section 2 for more information**

**Clean Water Act/ Clean Air Act**

**This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act or Clean Air Act.**

**US State Regulation**

**State Right to Know:**

**Glycerol (CAS-No. 56-81-5) can be found on the following state Right-to-Know lists: Pennsylvania, Minnesota, Massachusetts, New Jersey, Rhode Island**

**Sodium azide (CAS-No. 26628-22-8) can be found on the following state Right-to-Know lists: Pennsylvania, Massachusetts, New Jersey, Rhode Island**

**Tween 20 (Cas-No. 9005-64-5) can be found on the following state Right-to-Know lists: Pennsylvania, Minnesota, Massachusetts, New Jersey, Rhode Island**

**California Prop. 65 Components**

**This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.**

**SECTION 16: OTHER INFORMATION**



**Full text of H-Statements referred to under section 3.**

H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH032 Contact with acids liberates very toxic gas.

**Further information**

To the best of our knowledge, the information contained herein is accurate and complete. However, we can neither guarantee nor assume any liability whatsoever for the accuracy or completeness of the information contained in this MSDS. Final determination of suitability of any material is the sole responsibility of the user, as health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. All materials and mixtures may present unknown hazards and should be used with caution. No warranty is made, either express or implied.