SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1. Product Identifier:

Product Name IntelliPlex BRAF V600 Mutation Kit

Product Code 82004

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
BRAF KIT Reaction Mix	Glycerol (Not Hazardous)	56-81-5	1-5%
BRAF KIT Primer Mix	Not Hazardous	-	-
Hy Buffer	Not Hazardous	-	-
SA-PE solution	Sodium azide	26628-22-8	0.05%
BRAF KIT POS Control	Not Hazardous	-	-
NEG Control	Not Hazardous	-	-
BRAF KIT πCode MicroDisc	Sodium azide	26628-22-8	0.05%
	Glycerol (Not Hazardous)	56-81-5	40-60%
10X Wash Buffer	Sodium azide	26628-22-8	0.09%
	Tween 20 (Not Hazardous)	9005-64-5	0.1%

Component: Sodium azide **Classification**

Formula NaN_3 Acute Tox. 2 (H300); Acute Tox. 1 (H310);

Cas-No	26628-22-8	STOT RE 2 (H373); Aquatic Acute 1 (H400);
EC-No	247-852-1	Aquatic Chronic 1 (H410)
Index-No.	011-004-00-7	(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

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

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

BRAF KIT Reaction Mix; BRAF KIT Primer Mix; BRAF KIT Hy Buffer; SA-PE solution; BRAF KIT POS Control; BRAF KIT NEG Control; BRAF KIT πCode MicroDisc; BRAF KIT 10X Wash Buffer

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

9.2 Other safety information

Not available

SECTION 10: STABILITY AND REACTIVITY DATA

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	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
	LD50 Dermal - Rabbit - > 10000 mg/kg
Tween20	LD50 Oral - Rat - 36700 mg/kg
Eye Contact:	May cause eye irritation.
Skin Contact:	May cause skin irritation.
Inhalation:	May cause irritation of respiratory tract.
Ingestion:	May be harmful if swallowed.
Carcinogenic Effects:	Not available.
Mutagenic Effects:	Not available.
Reproduction Toxicity:	Not available.
Sensitization:	Not available.
STOT - Single exposure	Not determined
STOT - Repeated exposure	Not determined
Additional Information:	RTECS: VY8050000; MA8050000; TR7400000

SECTION 12: ECOLOGICAL INFORMATION	
12.1 Toxicity:	Not classified based on available information.
12.2 Persistence and degradability:	Not available.
12.3 Bioaccumulative potential:	Not available.
12.4 Mobility in soil:	Not available.
12.5 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.
12.6 Other adverse effects:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Potentially toxic to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION	
14.1 – UN Number	ADR/ RID/ IATA: Not regulated as a dangerous good
14.2 – Proper shipping name	ADR/ RID/ IATA: Not regulated as a dangerous good
14.3 – Hazard class	ADR/ RID/ IATA: Not regulated as a dangerous good
14.4 – Packing group	ADR/ RID/ IATA: Not regulated as a dangerous good
14.5 – Environmental hazards	ADR/ RID/ IATA/ IMDG: Not regulated as a dangerous good
14.6 – Special precautions for the user	Not required
14.7 – Transport in bulk information	Not applicable

SECTION 15: OTHER REGULATORY INFORMATION

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

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.