

Akt Pathway Activation SnapChip™

SECTION 1. IDENTIFICATION

Product Identifier PBA-SC001
Other Means of Identification Akt Pathway Activation SnapChip™
Recommended Use This product is furnished for LABORATORY RESEARCH USE ONLY.
Restrictions on Use Not for diagnostic or therapeutic use.
Initial Supplier Identifier Paralex BioAssays Inc.
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SECTION 2. HAZARD IDENTIFICATION

Classification SnapChips™ components do not meet WHMIS or GHS classification for physical, health, or environmental hazards.

Label Elements No signal word, hazard, or precautionary statements are required as this product does not meet WHMIS or HGS classification as a physical, health, or environmental hazard.

Other Hazards Following normal use, samples from animals will have been in contact with the assay slide and may then contain infectious material (Class D3) and should be disposed of as biohazardous waste.



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Chemical Name	CAS No.	Concentration	Common name / Synonyms	Classification
Streptavidin (dry)					None hazardous
Blocking buffer and Wash buffer (5x)	Sodium azide	26628-22-8	0.05-0.25%	Sodium trinitride Smite Azium	Acute Tox.2; Acute Tox.1; STOT RE2; Aquatic Acute1; Aquatic Chronic1; H300 + H310, H373, H4101
Assay slide	2,3-Butanediol	513-85-9	12.25%	Butane-2,3-diol 2,3-butylene	Flam. Liq.4; H227

				glycol 2,3- Dihydroxybutane	
Detection side					None hazardous

Notes This product contains no hazardous constituents, or the concentrations of all chemical constituents are below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communication Standard 29CFR 1910.1200 and the European Directive 91/155/EE.

SECTION 4. FIRST-AID MEASURES

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation Move to an outside area and breath fresh air. Clear the nose by blowing. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Consult a physician.

Skin Contact Wash off with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing and clean shoes before reuse.

Eye Contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth with water. Call a POISON CENTER or doctor/ physician if you feel unwell.

Most Important Symptoms and Effects, Acute and Delayed The most important known symptoms and effects are described in section 11.

Immediate Medical Attention and Special Treatment Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. No specific treatment.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media Suitable Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing Media Unsuitable None

Extinguishing Media Specific Hazards Arising from the Product In a fire or if heated, a pressure increase will occur, and the component containers may burst.

Special Protective Equipment and Precautions for Fire-Fighters Wear self-contained breathing apparatus for firefighting if necessary

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, dust, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Use personal protective equipment (see section 8).

Methods for Containment and Cleaning Up Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Discharge into the environment must be avoided.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.
Conditions for Safe Storage	Upon arrival, store components at 4°C or -20°C according to indications.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH® TLV®	OSHA PEL	NIOSH REL
Sodium azide	Ceiling: 0.29 mg/m ³ Ceiling: 0.11 ppm	Skin (Vacated) Ceiling: 0.3 mg/m ³ (Vacated) Ceiling: 0.1 ppm	Ceiling: 0.3 mg/m ³ Ceiling: 0.1 ppm
2,3-Butanediol	No data available	No data available	No data available

Legend

ACGIH: Association Advancing Occupational and Environmental Health

OSHA: Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Appropriate Engineering Controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Individual Protection Measures	
Eye/Face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin Protection	Wear appropriate protective clothing such as a lab coat with long sleeves.
Respiratory Protection	No protective equipment is needed under normal use conditions.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Sodium azide	2,3-Butanediol
Appearance	Form: crystalline Colour: white	Liquid
Odour	No data available	No data available
Odour Threshold	No data available	N/A
pH	10at65 g/l at25 °C (77 °F)	9.0 -10.0at500 g/l at 20 °C (68 °F)
Melting Point and Freezing Point	275 °C (527 °F)	Melting point/range: 25 °C (77 °F)
Initial Boiling Point and Boiling Range	No data available	183 -184 °C (361 -363 °F)
Flash Point	No data available	85 °C (185 °F)-closed cup
Evaporation Rate	No data available	No data available
Flammability (solid, gas)	N/A	No data available
Upper and Lower Flammability or Explosive Limit	No data available	Upper explosion limit: 11.4 %(V) Lower explosion limit: 3.1 %(V)
Vapour Pressure	0.01 hPa (0.01 mmHg) at 20 °C (68 °F)	23 hPaat20 °C (68 °F)
Vapour Density	No data available	3.61

(air = 1)		
Relative Density (water = 1)	1.850 g/cm ³	1.002 g/cm ³ at 20 °C (68 °F)
Solubility in Water	65 g/l at 20 °C (68 °F)-completely soluble	Soluble
Solubility in Other Liquids	No data available	No data available
Partition Coefficient, n-Octanol / Water (Log Kow)	No data available	log Pow: -0.92
Auto-ignition Temperature	309 °C (588 °F) at 1,013 hPa (760 mmHg)	No data available
Decomposition Temperature	300 °C (572 °F)	No data available
Viscosity	No data available	No data available
Dissociation constant	No data available	14.9 at 25 °C (77 °F)
Relative vapour density	No data available	3.61
Bulk density	0.8 kg/m ³	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical Stability	Stable under normal conditions of handling, use, and transportation.
Possibility of Hazardous Reactions	None under normal processing.
Conditions to Avoid	Avoid temperatures above 25 °C and direct sunlight. Risk of degradation.
Incompatible Materials	None known based on information supplied.
Hazardous Decomposition Products	None known based on information supplied.

SECTION 11. TOXICOLOGICAL INFORMATION

	Sodium azide	2,3 Butanediol
Acute toxicity	LD50Oral-Rat-27 mg/kg Inhalation: No data available Dermal: No data available No data available	LD50Oral-Rat-male and female-> 5,000 mg/kg Inhalation: No data available Dermal: No data available LD50 Intraperitoneal-Mouse-6,075 mg/kg
Skin corrosion/irritation	Skin-reconstructed human epidermis (RhE) Result: No skin irritation-15 min	Skin-Rabbit Result: No skin irritation-24 h
Serious eye damage/eye irritation	Eyes-Bovine cornea Result: No eye irritation-4 h (OECD Test Guideline 437)	Eyes-Rabbit Result: No eye irritation-72 h
Respiratory or skin sensitisation	in vivo assay-Mouse Result: Does not cause skin sensitisation (OECD Test Guideline 429)	Maximisation Test-Guinea pig Result: Does not cause skin sensitisation. (OECD Test Guideline 406) Germ cell mutagenicity S. Typhimurium Result: negative

Carcinogenicity	Carcinogenicity-Rat-male and female-Oral No significant adverse effects were reported 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	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. 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.
Reproductive toxicity	No data available	No data available
Specific target organ toxicity - single exposure	No data available	No data available
Specific target organ toxicity - repeated exposure	Oral-May cause damage to organs through prolonged or repeated exposure-Brain	No data available
Aspiration hazard	No data available	No data available
Additional Information	RTECS: VY8050000 Repeated dose toxicity Rat-male and female-Oral-LOAEL: 5 mg/kg Nausea, Headache, Vomiting, Laboratory experiments in animals have shown sodium azide to produce a profound hypotensive effect, demyelination of myelinated nerve fibers in the central nervous system, testicular damage, blindness, attacks of rigidity, and hepatic and cerebral effects., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	RTECS: EK0532000 Gastrointestinal disturbance, Nausea, Headache, Vomiting

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Sodium azide	2,3-Butanediol
Toxicity to algae	static testEC50-Pseudokirchneriella subcapitata-0.35 mg/l-96 h	
Toxicity to bacteria		EC50: 1000 mg/L, 0.5 h
Toxicity to fish	mortalityLC50-Pimephales promelas (fathead minnow)-5.46 mg/l-96 h	
Toxicity to daphnia and other aquatic invertebrates		EC50: 100 mg/L (Daphnia magna) 48 h

Persistence and Degradability	2,3-Butanediol Aerobic – Exposure time 14 d Result: > 90 % - Readily biodegradable
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
Other Adverse Effects	No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods Dispose of container and unused contents in accordance with applicable federal, state, provincial or local regulations.

SECTION 14. TRANSPORT INFORMATION

Not Regulated by DOT (US), TDG (Canada) or IATA.

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations There are no authorizations or restrictions on use for this product. No chemical safety assessment has been carried out.

SECTION 16. OTHER INFORMATION

First Release Date 2019-05-07
Date of Latest Revision 2019-05-07

Questions

Please contact Parallelex BioAssays Inc. directly if you have questions regarding this Material Safety Data Sheet (MSDS).

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Disclaimer

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End of Safety Data Sheet

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