SAFETY DATA SHEET

***Version**: 1.0* ***Issue Date:** 02/11/2026* ***Revision Date:** 02/11/2026*

Section 1: Identification

1.1. Product Identifier:

Product Codes: AKES084

Product Name: Cell Stimulation and Protein Transport Inhibitor Kit

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

Identified use:
Laboratory reagent kit for in vitro quantitative determination of the stated analyte by enzyme-linked immunosorbent assay. Professional laboratory use only, by trained personnel.
Uses advised against: not for diagnostic or therapeutic procedures in humans or animals; not for food, cosmetic or household use; not for administration to humans or animals.

Pure substance/mixture: Mixture

1.3. Details of the supplier of the safety data sheet:
Assay Genie
25 Windsor Place
D02VY42
Dublin 2
Ireland
+353 (01) 8879802

For information about this SDS, please contact: techsupport@assaygenie.com

1.4. Emergency Telephone Number:
Contact the national poisons information centre or emergency service for the country of use.

Europe: A directory of centres is maintained by the European Association of Poisons Centres and Clinical Toxicologists (EAPCCT)
United Kingdom: general public dial 111 (England, Scotland and Wales); healthcare professionals contact the National Poisons Information Service (NPIS)
United States: Poison Help, 1-800-222-1222 (24 hours)
Canada: 1-844-POISON-X / 1-844-764-7669 (24 hours); Québec 1-800-463-5060
Australia: Poisons Information Centre, 13 11 26 (24 hours)
New Zealand: National Poisons Centre, 0800 764 766 (24 hours)
Elsewhere: consult the World Health Organization world directory of poisons centres

Section 2: Hazard(s) Identification

Components and hazardous ingredients:

Component A: Odorless and white, powder. Hazardous ingredient: No Hazards.
Component B: Odorless and colorless, liquid. Hazardous ingredient: dimethyl sulfoxide, 2.8%, CAS No. 67-68-5.
Component C: Odorless and white, powder. Hazardous ingredient: No Hazards.

2.1 Hazard statement

Classification according to GHS

2.1.1 Dimethyl sulfoxide

H227 - Combustible liquid.
H320: Causes eye irritation.

2.2 Precaution statement

Classification according to GHS.

2.2.1 Dimethyl sulfoxide

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P210 - Keep away from flames and hot surfaces. - No smoking.
P403 - Store in a well-ventilated place.
P235 - Keep cool.
P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Section 3: Composition/ Information on Ingredients

Ingredient	Component	Concentration	CAS No.
Phorbol 12-myristate 13-acetate	A	2.58%	16561-29-8
Ionomycin calcium salt	A	3.85%	56092-82-1
Potassium chloride	A	32.72%	7447-40-7
Sodium chloride	A	60.85%	7647-14-5
H2O	B	93.98%	7732-18-5
HEPES	B	2.4%	7365-45-9
Dimethyl sulfoxide	B	2.8%	67-68-5
Potassium dihydrogen phosphate	B	0.02%	7778-77-0
Sodium chloride	B	0.80%	7647-14-5
Monensin sodium	C	0.78%	22373-78-0
Brefeldin A	C	1.20%	20350-15-6
Potassium dihydrogen phosphate	C	55.23%	7778-77-0

Sodium chloride	C	42.79%	7647-14-5

Section 4: First-Aid Measures

Classification according to GHS

4.1 General advice

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

4.2 If inhaled

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

4.3 In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

4.4 In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

4.5 If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5: Fire-Fighting Measures

5.1 Suitable extinguishing media

Suitable: Water spray, alcohol-resistant foam, dry chemical, carbon dioxide or appropriate foam. For small fires, use media such as “alcohol” foam, dry chemical or carbon dioxide.
For large fires, apply water from as far as possible. Use large quantities of water applied as a mist or spray. Solid streams of water may be ineffective. Cool affected containers with flooding quantities of water.

5.2 Special precautions for fire-fighters

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

5.3 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas.

Section 6: Accidental Release Measures

6.1 Person-related safety precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

6.2 Measures for environmental protection

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

6.3 Measures for containment and cleaning

Contain spillage, and then collect with non-combustible absorbent material (eg. sand, diatomaceous earth, vermiculite). Place in a container for disposal according to local regulations. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Sweep up and shovel. Contain spillage, and then collect with an

electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

7.1 Handling

Wear appropriate protective clothing and safety gloves.
Avoid inhalation.
Avoid contact with eyes, skin and clothing.
Mechanical exhaust required.
Keep away from ignition sources, heat and flame.
No smoking at working site.
Incompatibilities: Strong oxidizing agents, Strong acids. Handling and unloading should be light, to prevent packaging broken, damp and cause losses.
Working place should be equipped with appropriate varieties and quantities of firefighting equipment and leakage emergency treatment equipment.

7.2 Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Keep away from heat, sparks and flame.
Keep away from sources of ignition.
Incompatible: Strong oxidizing agents, Strong acids.
Storage place should be equipped with appropriate varieties and quantities of firefighting equipment and leakage emergency treatment equipment.

Section 8: Exposure Controls/Personal Protection

8.1 Engineering Controls

Mechanical exhaust required. Safety shower and eye bath.

8.2 Personal Protective Equipment

Respiratory: Government approved respirator if needed.
Eye/face: Chemical safety goggles if needed.
Clothing: Wear appropriate protective clothing.
Hand/skin: Protective gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Body protection: Wear suitable protective clothing according to the concentration and amount of the substance at the workplace.

8.3 Other Protect

No smoking, drinking and eating at working site. Wash thoroughly after handling.

Section 9: Physical and Chemical Properties

9.1 Dimethyl sulfoxide

a) Appearance: Colorless liquid
b) Odor: Slight; Almost no odor
c) Odor Threshold: No data available
d) pH: 7.2

e) Melting point/freezing point: 18.5°C (65.3°F)
f) Initial boiling point and boiling range: 189°C (372.2°F)
g) Flash point: Open cup: 87°C (188.6°F)
h) Evaporation rate: 0.026 (butyl acetate = 1)
i) Flammability (solid, gas): No data available
j) Upper/lower flammability or explosive limits: Lower: 2.6%; Upper: 28.5%
k) Vapor pressure: 0.056 kPa (0.42 mm Hg) [room temperature]
l) Vapor density: 2.7 [Air = 1]
m) Relative density: 1.1
n) Water solubility: 1000 g/L
o) Partition coefficient: -1.35
p) Autoignition temperature: 300 to 302°C (572 to 575.6°F)
q) Decomposition temperature: 140 to 189°C (284 to 372.2°F)
r) Viscosity: Dynamic (room temperature): 2.14 mPa·s (2.14 cP)
s) Explosive properties: No data available
t) Oxidizing properties: No data available

Section 10: Stability and Reactivity

10.1 Reactivity
No data available
10.2 Chemical stability
Stable under recommended storage conditions
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
Heat, flames and sparks
10.5 Incompatible materials
Strong oxidizing agent, Light sensitive, Alcohols, Organic materials, Heavy metals, Powdered metals, Strong reducing agents, Amines, Mercaptans.
10.6 Hazardous decomposition products
Other decomposition products: No data available
Hazardous decomposition products formed under fire conditions: Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas.

Section 11: Toxicological Information

11.1 Dimethyl sulfoxide
Acute toxicity
LD50 Dermal - Rat -40000mg/kg
LD50 Oral - 14500mg/kg
Skin corrosion/irritation
Skin - Mild irritant-Rabbit-Exposure 24 hours 500 mg
Serious eye damage/eye irritation
Eyes - Mild irritant-Rabbit-Exposure 24 hours 500 mg
Respiratory or skin sensitization
No data available
Germ cell mutagenicity

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Reproductive toxicity

No known significant effects or critical hazards.

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Section 12: Ecological Information

12.1 Dimethyl sulfoxide

Toxicity

No data available

Acute LC50 25000 ppm Fresh water Daphnia - Daphnia magna – Neonate 48 hours

Acute LC50 34000000 µg/l Fresh water Fish - Pimephales promelas 96 hours

Chronic NOEC 100 ul/L Marine water Algae - Ulva lactuca 72 hours

Chronic NOEC 6 ppb Fresh water Fish - Poecilia reticulata – Adult 16 weeks

Persistence and degradability

301C Ready Biodegradability - Modified MITI Test (I) 3.1 % - 14 days

Bioaccumulative potential

LogPow: -1.35

BCF: 3.6

Potential: low

Mobility in soil

No data available

Results of PBT and vPvB assessment

No data available

Other adverse effects

No known significant effects or critical hazards.

Section 13: Disposal Considerations

13.1 Disposal methods

Dispose of waste in accordance to applicable national, regional, or local regulations. Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

13.2 Contaminated packaging

Dispose in the same manner as unused product.

Section 14: Transport Information

RID/ADR: Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.
IATA: Non-Hazardous for Air Transport.
IMO: Non-Hazardous for Sea Transport.

Section 15: Regulatory Information

This material safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008 and its amendments.

Section 16: Other Information

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End Of MSDS