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**MATERIAL SAFETY DATA SHEET**

This Material Safety Data Sheet (MSDS) has been written in accordance with the European Union Council Directive 98/24/EC of 7th April on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual directive within the meaning of Article 16(1) of the Directive 89/391/EEC).

Commission Directive 2001/58/EC of 27<sup>th</sup> July 2001 amending for the second-time Directive 91/155/EEC defining and laying own the detailed arrangements for the system of information relating to dangerous preparations in implementation of Article 14 of the European Parliament Directive 1999/45/EC and relating to dangerous substances in Implementation of Article 27 of Council Directive 67/548/EEC (safety data sheets). (Text with EEA relevance). Appropriate risk and safety phrases are cited in this MSDS.

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifiers**

Product name: instaCELL® micronucleus assay kit

Product Number: SF230-01

Positive control Mytomycin C  
**Mytomycin C**

CAS-No.: 50-07-7

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

The product is for research only and must not be used for diagnostic or therapeutic use.

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

acCELLerate GmbH

Osterfeldstraße 12-14

22529 Hamburg

Telephone: 040 33 464 73 00

Fax: 040 6337 0309

**1.4 Emergency telephone number**

Emergency Phone: 040 33 464 73 00

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008**

Acute toxicity, Oral (Category 2), H300

Carcinogenicity (Category 2), H351

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

Pictogram



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**MATERIAL SAFETY DATA SHEET**

Signal word: Danger

Hazard statement(s):  
H300 Fatal if swallowed.  
H351 Suspected of causing cancer.

Precautionary statement(s):  
P201 Obtain special instructions before use.  
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
Rinse mouth.

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none****SECTION 3: Composition/information on ingredients****3.1 Substances**

Synonyms: Mitomycin C  
7-Amino-9-alpha-methoxymitosane  
Ametycine

Formula: C<sub>15</sub>H<sub>18</sub>N<sub>4</sub>O<sub>5</sub>

Molecular weight: 334,33 g/mol

CAS-No.: 50-07-7

EC-No.: 200-008-6

Component:	Classification:	Concentration:
Mitomycin C	Acute Tox. 2; Carc. 2; H300, H351	<= 100 %

**SECTION 4: First aid measures****4.1 Description of first aid measures****General advice**

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

**If inhaled**

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

**In case of skin contact**

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

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

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MATERIAL SAFETY DATA SHEET

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

No data available

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

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

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

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

No data available

**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 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**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

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. For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

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**MATERIAL SAFETY DATA SHEET**

Recommended storage temperature 2 - 8 °C

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**8.2 Exposure controls****Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment:****Eye/face protection**

Sufficient eye protection should be worn.

Wear glasses with side protection.

**Skin protection**

Use protective gloves. The glove material must be sufficiently impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location. Pay attention to skin care.

Skin protection cremes do not protect sufficiently against the substance.

Currently there is no information available regarding suitable glove materials.

Experience says that polychloroprene, nitrile rubber, butyl rubber, fluoro-caoutchouc, and polyvinyl chloride are suitable as glove materials for protection against un-dissolved solids.

**Body Protection**

Depending on the risk, wear a tight protective clothing or a suitable chemical protection suit.

**Respiratory protection**

In an emergency (e.g.: unintentional release of the substance) respiratory protection must be worn.

Consider the maximum period for wear.

Respiratory protection: Particle filter P3, colour code white.

Use insulating device for concentrations above the usage limits for filter devices, for oxygen concentrations below 17% volume, or in circumstances which are unclear.

**Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

a) Appearance Form: powder

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**MATERIAL SAFETY DATA SHEET**

Color: dark blue

- b) Odor: No data available
- c) Odor Threshold: No data available
- d) pH: No data available
- e) Melting point/freezing point: >360°C
- f) Initial boiling point and boiling range: No data available
- g) Flash point: No data available
- h) Evaporation rate: No data available
- i) Flammability (solid, gas): No data available
- j) Upper/lower flammability or explosive limits: No data available
- k) Vapor pressure: No data available
- l) Vapor density: No data available
- m) Relative density: No data available
- n) Water solubility: No data available
- o) Partition coefficient: No data available
- p) Auto-ignition temperature: No data available
- q) Decomposition temperature: No data available
- r) Viscosity: No data available
- s) Explosive properties: No data available
- t) Oxidizing properties: No data available

**9.2 Other safety information**

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**

May polymerize on exposure to light. Exposure to light.

**10.5 Incompatible materials**

Strong acids, Strong oxidizing agents, Strong bases

**10.6 Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

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**MATERIAL SAFETY DATA SHEET****Acute toxicity**

LD50 Oral - Mouse - 23 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Diarrhoea Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

LD50 Oral - Quail - &gt; 100 mg/kg

LD50 Oral - Bird (wild) - 7,5 mg/kg

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity****Carcinogenicity**

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Mitomycin C)

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Mitomycin C)

**Reproductive toxicity****Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

RTECS: CN0700000

**SECTION 12: Ecological information****12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

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**MATERIAL SAFETY DATA SHEET**

No data available

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not Conducted

**12.6 Other adverse effects**

No data available

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

**SECTION 14: Transport information****14.1 UN number**

ADR/RID: 3462 IMDG: 3462 IATA: 3462

**14.2 UN proper shipping name**

ADR/RID: TOXINS EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (MITOMYCIN C, STREPTOMYCES CA)

IMDG: TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (MITOMYCIN C, STREPTOMYCES CA)

IATA: Toxins, extracted from living sources, solid, n.o.s. (MITOMYCIN C, STREPTOMYCES CA)

**14.3 Transport hazard class(es)**

ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

**14.4 Packaging group**

ADR/RID: II IMDG: II IATA: II

**14.5 Environmental hazards**

ADR/RID: no IMDG Marine pollutant: no IATA: no

**14.6 Special precautions for user**

No data available

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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MATERIAL SAFETY DATA SHEET

**15.2 Chemical safety assessment**

For this product, a chemical safety assessment was not carried out

**SECTION 16 OTHER INFORMATION**

THE INFORMATION PRESENTED IN THIS DOCUMENT IS BELIEVED TO BE CORRECT BASED UPON DATA AVAILABLE TO ACCELERATE. USERS SHOULD MAKE AN INDEPENDENT DECISION REGARDING THE ACCURACY OF THIS INFORMATION BASED ON THEIR NEEDS AND DATA AVAILABLE TO THEM. ALL SUBSTANCES AND MIXTURES MAY PRESENT UNKNOWN HAZARDS AND ALL NECESSARY SAFETY PRECAUTIONS SHOULD BE TAKEN. ACCELERATE ASSUMES NO LIABILITY RESULTING FROM USING OR COMING IN CONTACT WITH THIS SUBSTANCE.

In the event of an accident involving exposure of a person to the material contained in the samples, contact acCELLerate during normal German working hours. Refer to section 1 for full contact details.

The above information is correct to the best of our knowledge. All materials and mixtures may present unknown hazards and should be used with caution.

The user should make independent assessments and decisions regarding the completeness of the information based on all sources available.

acCELLerate shall not be held liable for any damage resulting from handling or contact with the above product.

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## MATERIAL SAFETY DATA SHEET

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifiers**

Product name: instaCELL® micronucleus assay kit

Product Number: SF230-01

**Fluoroshield with DAPI****1.2 Relevant identified uses of the substance or mixture and uses advised against**

The product is for research only and must not be used for diagnostic or therapeutic use.

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

acCELLerate GmbH

Osterfeldstraße 12-14

22529 Hamburg

Telephone: 040 33 464 73 00

Fax: 040 6337 0309

**1.4 Emergency telephone number**

Emergency Phone: 040 33 464 73 00

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

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 Hazards not otherwise classified (HNOC) or not covered by GHS – none**

Sodium Azide may react with lead and copper plumbing to form highly explosive metal azides.

**SECTION 3: Composition/information on ingredients****3.1 Substances**Formula: NaN<sub>3</sub>

Molecular weight: 65,01 g/mol

CAS-No.: 26628-22-8

EC-No.: 247-852-1

Component:	Classification:	Concentration:
Sodium Acide	Acute Tox. 2; Acute Tox. 1; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H300, H330, H310, H373, H400, H410 M-Factor - Aquatic Acute: 1	>=0,1 - <0,25%

No components need to be disclosed according to the applicable regulations.

**SECTION 4: First aid measures****4.1 Description of first aid measures****If inhaled**

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

**In case of skin contact**

Wash off with soap and plenty of water.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

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

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

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Hydrogen chloride gas

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

No data available

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment, and emergency procedures**

Avoid dust formation. Avoid breathing vapors, mist or gas.

For personal protection see section 8.

**6.2 Environmental precautions**

Do not let product enter drains.

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

Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

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**MATERIAL SAFETY DATA SHEET**

For disposal see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature 2 - 8 °C

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

**Components with workplace control parameters**

**8.2 Exposure controls****Appropriate engineering controls**

General industrial hygiene practice.

**Personal protective equipment****Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection****Body Protection****Control of environmental exposure**

No special environmental precautions required.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

No Data available

**9.2 Other safety information**

No data available

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No data available

**10.2 Chemical stability**

Stable under recommended storage conditions.

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MATERIAL SAFETY DATA SHEET

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

No data available

**10.5 Incompatible materials**

Strong oxidizing agents

**10.6 Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sodium oxides

Other decomposition products - No data available

In the event of fire: see section 5.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

No data available

**SECTION 12: Ecological information**

**12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects**

No data available

**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**

Not dangerous goods

**SECTION 15: Regulatory information**

No data available

**SECTION 16: Other information**

THE INFORMATION PRESENTED IN THIS DOCUMENT IS BELIEVED TO BE CORRECT BASED UPON DATA AVAILABLE TO ACCELERATE. USERS SHOULD MAKE AN INDEPENDENT DECISION REGARDING THE

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MATERIAL SAFETY DATA SHEET

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The above information is correct to the best of our knowledge. All materials and mixtures may present unknown hazards and should be used with caution.

The user should make independent assessments and decisions regarding the completeness of the information based on all sources available.

acCELLerate shall not be held liable for any damage resulting from handling or contact with the above product.

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