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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Modified SAF Transport Medium / Fixative SAF O&P Stool Collection Kit  
Catalog Number: F03 / F05K  
Product Use: For laboratory use only

Manufacturer's Name: Dalynn Biologicals Inc.  
Supplier's Name: Dalynn Biologicals Inc.  
Address: 3253 – 34 Avenue NE  
Calgary, AB, Canada  
T1Y 6X2

Telephone: 1-888-404-4045  
Fax: (403) 250-9010  
Chemical Emergency: 1-613-996-6666  
Phone Number Only

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**2. HAZARD IDENTIFICATION****Emergency Overview****GHS Classification**

Acute toxicity, Oral (Category 4)  
Acute toxicity, Inhalation (Category 5)  
Acute toxicity, Dermal (Category 5)  
Skin corrosion/irritation (Sub-category 1B)  
Serious eye damage/eye irritation (Category 1)  
Germ cell mutagenicity (Category 2)  
Specific target organ toxicity – repeated exposure (Category 1)

**GHS Label Elements, Including Precautionary Statements**

Pictogram



Signal word

Danger

Hazard statement(s)

H302 Harmful if swallowed  
H314 Causes severe skin burns and eye damage.  
H341 Suspected of causing genetic defects.  
H350 May cause cancer.  
H373 May cause damage to organs through prolonged or repeated exposure

Precautionary statement(s)

P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.

P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P361 + P364	Take off immediately all contaminated clothing and wash it before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/ container to an approved waste disposal plant.

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### 3. COMPOSITION & INFORMATION ON INGREDIENTS

INGREDIENT	%	CAS-No.	EC-No.	Index-No.
Formaldehyde	4.0	50-00-0	200-001-8	605-001-00-5
Acetic Acid	2.0	64-19-7	200-580-7	607-002-00-6
Water	~90.0	7732-18-5	231-791-2	-

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### 4. FIRST AID MEASURES

#### General advice

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

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Take victim to hospital and consult a physician.

#### In case of skin contact

Take off contaminated clothing. Wash affected area with soap and plenty of water. Take victim to hospital and consult a physician.

#### In case of eye contact

Flush eyes with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Do not induce vomiting. Rinse mouth with water if patient is conscious. Take patient to hospital and consult a physician.

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### 5. FIREFIGHTING MEASURES

**Conditions of flammability**

Contains mostly water therefore the flammability hazard is minimal.

**Suitable extinguishing media**

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

**Special protective equipment for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions: carbon oxides (ie. carbon dioxides, carbon monoxide), formaldehyde, formic acid

**Explosion data – sensitivity to mechanical impact**

No

**Explosion data – sensitivity to static discharge**

No

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Collect spillage and hold for disposal.

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

Wearing appropriate safety gear including chemical resistant gloves and dust mask or respirator, soak up with inert absorbent material. Place in a sealed container and hold for disposal.

**7. HANDLING AND STORAGE****Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use in area with adequate ventilation.

**Conditions for safe storage**

Keep container tightly closed in a well ventilated place away from direct light or sunlight.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Basis
Formaldehyde	50-0-0	TWA	0.75 ppm 0.9 mg/m3	Canada. Alberta. Occupational Health and Safety Code (table 2:OEL)
		(C)	1.0 ppm 1.3 mg/m3	Canada. Alberta. Occupational Health and Safety Code (table 2:OEL)
Remarks	Suspected human carcinogen			
		TWA	0.3 ppm	Canada. British Columbia OEL
		C	1.0 ppm	Canada. British Columbia OEL

		C	2 ppm 3 mg/m <sup>3</sup>	Canada. Quebec. Regulation respecting occupational health and safety, schedule 1, Part 1
		STEL	1.0 ppm	Canada. Ontario Table of Occupational Exposure Limits made Occupational Health and Safety Act
		C	1.5 ppm	Canada. Ontario Table of Occupational Exposure Limits made Occupational Health and Safety Act
A substance which may not be recirculated in accordance with section 108 A substance to which exposure must be reduced to a minimum in accordance with section 42 Carcinogenic effect suspected in humans				
		C	0.3 ppm	USA. ACGIH Threshold Limit Values (TLV)
Acetic acid	64-19-7	TWA	10 ppm 25 mg/m <sup>3</sup>	Canada. Alberta. Occupational Health and Safety Code (table 2:OEL)
		STEL	15 ppm 37 mg/m <sup>3</sup>	Canada. Alberta. Occupational Health and Safety Code (table 2:OEL)
		TWA	10 ppm	Canada. British Columbia OEL
		STEL	15 ppm	Canada. British Columbia OEL
		TWAEV	10 ppm 25 mg/m <sup>3</sup>	Canada. Quebec. Regulation respecting occupational health and safety, schedule 1, Part 1
		STEV	15 ppm 37 mg/m <sup>3</sup>	Canada. Quebec. Regulation respecting occupational health and safety, schedule 1, Part 1
		TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL	15 ppm	USA. ACGIH Threshold Limit Values (TLV)

### Engineering measures

Ensure adequate ventilation especially in confined areas. If desired, use mechanical exhaust or laboratory fumehood to avoid exposure.

### Personal protective equipment

#### Respiratory protection

Use in area with adequate ventilation. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type ABEK (EN14387) respirator cartridges as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with 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 after use.

#### Eye protection

Face shield and/or safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166 (EU).

#### Skin and body protection

Wear appropriate clothing such as a lab coat that covers as much of the body as possible. Complete suit can also be worn if desired.

#### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	Liquid
Color	Clear

### Safety data

pH	~4.5
Melting point/ freezing point	No data available
Boiling point	No data available
Flash point	No data available
Ignition temperature	No data available
Auto ignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor pressure	No data available
Density	No data available
Water solubility	soluble
Partition coefficient/ n-octanol/water	No data available
Relative vapor density	No data available
Odour	No data available
Odour threshold	No data available
Evaporation rate	No data available

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## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

No data available

### Materials to avoid

Strong oxidizing agents, strong acids, strong bases, isocyanates, phenol, anhydrides, nitromethane, aniline, peroxyformic acid

### Hazardous decomposition products

Other decomposition products – No data available

Hazardous decomposition products formed under fire conditions – Carbon oxides, formaldehyde, formic acid

**Hazardous polymerization**

Hazardous polymerization does not occur

**Hazardous reactions**

None under normal processing

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**11. TOXICOLOGICAL INFORMATION****Acute toxicity****Oral LD50**

LD50 Oral – Rat – 500 mg/kg (formaldehyde)

LD50 Oral – Rat – 3,310 mg/kg (acetic acid)

**Inhalation LC50**

LD50 Inhalation – Rat – 4h – 0.578 mg/L (formaldehyde)

LD50 Inhalation – Rat – 4h – 11.4 mg/L (acetic acid)

**Dermal LD50**

LD50 Dermal – Rabbit – 270 mg/kg (formaldehyde)

LD50 Dermal – Rabbit – 1,112 mg/kg (acetic acid)

**Other information on acute toxicity**

No data available

**Skin corrosion/irritation**

Skin – Rabbit – Severe burns (acetic acid)

**Serious eye damage/eye irritation**

Eye – Rabbit – Corrosive to eyes (acetic acid)

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

In vitro tests showed mutagenic effects for phenol and auramine.

**Carcinogenicity**

This table below indicates whether each agency has listed any ingredient as a carcinogen

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed
Formaldehyde	50-0-0	Group 1	Known	A1	X	A2
Acetic acid	64-19-7	Not listed	Not listed	Not listed	Not listed	Not listed

IARC: (International Agency for Research on Cancer)

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans Group

2A - Probably Carcinogenic to Humans Group

2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

NTP: (National Toxicity Program)

ACGIH: (American Conference of Governmental Industrial Hygienists)

ACGIH: (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

**Reproductive toxicity**

Experiments have shown reproductive toxicity effects on laboratory animals for formaldehyde

**Teratogenicity**

Teratogenic effects have occurred in experimental animals for formaldehyde

**Specific target organ toxicity – single exposure (GHS)**

Respiratory system, CNS, optic nerve

**Specific target organ toxicity – repeated exposure (GHS)**

Kidney, liver, heart, spleen, blood

**Aspiration hazard**

No data available

**Potential Health Effects****Inhalation**

May be toxic if inhaled. May cause respiratory tract irritation.

**Skin**

May be harmful or toxic if absorbed through skin. May cause skin irritation or burns depending on duration.

**Eyes**

May cause eye irritation or burns on contact.

**Ingestion**

Toxic if swallowed in sufficient quantity. Keep in mind that the main component in this product is water and the hazardous symptoms described are from exposure to formaldehyde therefore negative health effects are expected but muted given the diluted nature of the mixture. Symptoms of exposure include abdominal pain, nausea, vomiting, headache and dizziness.

**Signs and Symptoms of Exposure**

Symptoms of exposure include abdominal pain, nausea, vomiting, headache and dizziness.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic effects**

No data available

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**12. ECOLOGICAL INFORMATION****Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**PBT and vPvB assessment**

No data available

**Other adverse effects**

No data available

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**13. DISPOSAL CONSIDERATIONS**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

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**14. TRANSPORT INFORMATION**

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

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**15. REGULATORY INFORMATION**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by them.

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**16. OTHER INFORMATION**

**Further information**

Copyright 2018 Dalynn Biologicals Inc. The above information is believed to be correct but does not purport to be all inclusive and shall be only used as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Dalynn Biologicals Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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