

Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Identification of the substance or mixture

Product code 859541REAGENT3
Product name AEC Single Solution

Company/undertaking identification

Life Technologies 5791 Van Allen Way PO Box 6482 Carlsbad, CA 92008 +1 760 603 7200 Life Technologies 5250 Mainway Drive Burlington, ONT CANADA L7L 6A4 800/263-6236

24 hour Emergency Response:

866-536-0631 301-431-8585

Outside of the U.S. +1-301-431-8585

Country specific Emergency Number (if available):

CHEMTREC Brazil (Rio De Janeiro) +(55)-2139581449 (português)

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

SECTION 2: Hazards identification

GHS - Classification

Signal Word DANGER



Health hazards

Reproductive Toxicity Category 1B

Physical hazards

Not Hazardous

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Hazard Statements

H360 - May damage fertility or the unborn child

Precautionary Statements

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood P280 - Wear protective gloves/protective clothing/eye protection/face protection

P405 - Store locked up

Principle Routes of Exposure

Potential Health Effects

eyes May cause eye irritation with susceptible persons.

Skin May cause skin irritation in susceptible persons.

inhalation May be harmful by inhalation.

Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation,

nausea, vomiting and diarrhea.

Specific effects

Carcinogenic effects None Mutagenic effects None

Reproductive toxicity May cause adverse reproductive effects - such as birth defect, miscarriages, or

infertility

Sensitization None

Target Organ Effects Reproductive System

HMIS

Health	4 * Chronic Hazard	
Flammability	0	
Reactivity	0	

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CECTION 3	('ampacition	/intormation	on ingredients
SECTION 3.	COLLIDOSTITOLI	лионнацоп	OH HIGH EGIETIES

Chemical Name	CAS-No	EINECS-No	Weight %
N,N-Dimethylformamide	68-12-2	200-679-5	3-7

We recommend handling all chemicals with caution.

SECTION 4: First aid measures

Skin contact Wash off immediately with plenty of water for at least 15 minutes. Take off all

contaminated clothing and wash it before reuse. Immediate medical attention is

required.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Immediate medical attention is required.

Ingestion Call a physician or poison control center immediately. Never give anything by

mouth to an unconscious person. Do not induce vomiting without medical advice.

inhalation Remove to fresh air. If not breathing, give artificial respiration. Call a physician or

poison control center immediately.

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Notes to Physician Treat symptomatically.

SECTION 5: Firefighting measures

Suitable extinguishing media Special protective equipment for firefighters Water spray. Carbon dioxide (CO2). Foam. Dry chemical. Wear self-contained breathing apparatus and protective suit.

SECTION 6: Accidental release measures

Personal precautions Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use

personal protection equipment.

Methods for cleaning up Soak up with inert absorbent material.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

See Section 12 for more information.

SECTION 7: Handling and storage

Handling Always wear reccommended Personal Protective Equipment. No special handling

advices are necessary.

Storage Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

SECTION 8: Exposure controls/personal protection

Exposure Limits

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)	
N,N-Dimethylformamide	10 ppm 30 mg/m ³	None	10 ppm	None	

Engineering measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection Impervious gloves.

Eye protection Wear safety glasses with side shields (or goggles).

Skin and Body Protection Lightweight protective clothing.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure

controls water system

Prevent product from entering drains. Do not allow material to contaminate ground water system.

SECTION 9: Physical and chemical properties

General information

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Form Liquid

No information available **Appearance** Odor Mixture has not been tested **Odor Threshold** Mixture has not been tested

Boiling point / boiling range Melting point / melting range

flash point

Autoignition Temperature Oxidizing properties

Water solubility **Viscosity**

°C No data available °C No data available °C No data available

Mixture has not been tested

soluble

Mixture has not been tested

°C No data available

SECTION 10: Stability and reactivity

°F No data available

°F No data available

°F No data available

°F No data available

Stable under normal conditions. **Stability**

Materials to avoid **Hazardous decomposition**

products

polymerization

No information available. No information available.

None under normal processing.

SECTION 11: Toxicological information

Acute Toxicity

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
N,N-Dimethylformamide	No data available	No data available	No data available

Principle Routes of Exposure

Potential Health Effects

May cause eye irritation with susceptible persons eyes Skin May cause skin irritation in susceptible persons

inhalation May be harmful by inhalation

Ingestion May be harmful if swallowed Ingestion may cause gastrointestinal irritation,

nausea, vomiting and diarrhea

Carcinogenic effects None None **Mutagenic effects**

Reproductive toxicity May cause adverse reproductive effects - such as birth defect, miscarriages, or

infertility.

Sensitization None

Target Organ Effects Reproductive System

SECTION 12: Ecological information

Ecotoxicity Daphnia magna, Desmodesmus subspicatus

Mobility see log Pow

Biodegradation No information available No information available Bioaccumulation

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
	Data		opecies Data		

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N,N-Dimethylformamide	Desmodesmus	Daphnia magna		logPow-1.028
	subspicatus	EC50=8485 mg/L (48		
	EC50>500 mg/L (96	h) Daphnia magna		
	h)	EC50=7500 mg/L (48		
	,	h) Daphnia magna		
		EC506800 - 13900		
		mg/L (48 h)		

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

IATA

Proper Shipping Name

No dangerous good in sense of these transport regulations

Hazard ClassNoneSubsidiary classNonePacking groupNoneUN-Nonone

SECTION 15: Regulatory information

Component	TSCA
N,N-Dimethylformamide	Listed
68-12-2 (3-7)	

US Federal Regulations

SARA 313

This product contains the following toxic chemical(s) subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories. Please note that if you repackage, or otherwise redistribute, this product to industrial customers, a notice similar to this one should be sent to those customers:.

Chemical Name N,N-Dimethylformamide CAS-No 68-12-2 Weight %

SARA 313 - Threshold Values

1.0

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:.

Component N,N-Dimethylformamide 68-12-2 (3-7) CAS-No 68-12-2 Weight %

HAPS data
Present (listed under Dimethyl

formamide)

US State Regulations

Chemical Name	е	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK	Illinois - RTK	Rhode Island - RTK
N,N-Dimethylforma	mide	Listed	-	Listed	Listed	Listed

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

D2A - Very toxic materials



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SECTION 16: Other information

Reason for revision

SDS sections updated.

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"

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