



# SAFETY DATA SHEET

United States

## Section 1. Identification

Product name

**Tag A; part of 'ATAC Seq -20 C Kit'**

Catalogue Number

**29738932**



Other means of identification

Not available.

Product type

Liquid.

### Relevant identified uses of the substance or mixture and uses advised against

Laboratory chemicals  
Scientific research and development  
Analytical chemistry.

Supplier

Cytiva  
Amersham Place  
Little Chalfont  
Buckinghamshire  
HP7 9NA United Kingdom  
+44 1494 508000

Cytiva USA  
100 Results Way  
Marlborough, MA 01752  
1-800-526-3593

In case of emergency

INFOTRAC - 24 Hour number: 1-800-535-5053  
Outside of the United States, call 24 Hour number: 001-352-323-3500 (Call Collect)

## Section 2. Hazards identification

OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

CARCINOGENICITY - Category 1B  
TOXIC TO REPRODUCTION - Category 1B

### GHS label elements

Hazard pictograms



Signal word

Danger

Hazard statements

May cause cancer.  
May damage fertility or the unborn child.

### Precautionary statements

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection.  
IF exposed or concerned: Get medical advice or attention.

Response

Storage

Store locked up.

Disposal

Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified

None known.

Hazards identified when used

No known significant effects or critical hazards.



### Section 3. Composition/information on ingredients

Substance/mixture	Mixture		
Other means of identification	Not available.		
Ingredient name	Synonyms	%	Identifiers
N, N-dimethylformamide	dimethyl formamide; Formamide, N,N-dimethyl-; Dimethyl formamide-Formamide, N,N-dimethyl-; DMF; 2-hydroxybenzonitrile (CAS RN 611-20-1), in the form of a solution in N,N-dimethylformamide (CAS RN 68-12-2), containing by weight 45 % or more but not more than 55 % of 2-hydroxybenzonitrile; preparations consisting predominantly of ethylene glycol (CAS RN 107-21-1) and: — either diethylene glycol (CAS RN 111-46-6), dodecandioic acid and ammonia water, — or N,N-dimethylformamide (CAS RN 68-12-2), — or γ-butyrolactone (CAS RN 96-48-0), — or silicon oxide, — or ammonium hydrogen azelate, — or ammonium hydrogen azelate and silicon oxide, — or dodecandioic acid, ammonia water and silicon oxide, for the manufacture of electrolytic capacitors	≥1 - ≤5	CAS: 68-12-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

### Section 4. First aid measures

#### Description of necessary first aid measures

<b>Eye contact</b>	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.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed.
<b>Skin contact</b>	The exposed person may need to be kept under medical surveillance for 48 hours. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Ingestion</b>	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

##### Potential acute health effects

<b>Eye contact</b>	No known significant effects or critical hazards.
<b>Inhalation</b>	No known significant effects or critical hazards.
<b>Skin contact</b>	No known significant effects or critical hazards.
<b>Ingestion</b>	No known significant effects or critical hazards.

##### Over-exposure signs/symptoms

<b>Eye contact</b>	No specific data.
<b>Inhalation</b>	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations



<b>Skin contact</b>	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
<b>Ingestion</b>	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
<b><u>Indication of immediate medical attention and special treatment needed, if necessary</u></b>	
<b>Notes to physician</b>	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
<b>Specific treatments</b>	No specific treatment.
<b>Protection of first-aiders</b>	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**See toxicological information (Section 11)****Section 5. Fire-fighting measures****Extinguishing media**

<b>Suitable extinguishing media</b>	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	None known.
<b>Specific hazards arising from the chemical</b>	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
<b>Special protective actions for fire-fighters</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**Section 6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

<b>For non-emergency personnel</b>	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
<b>Environmental precautions</b>	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

<b>Small spill</b>	Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
<b>Large spill</b>	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

**Section 7. Handling and storage****Precautions for safe handling**

<b>Protective measures</b>	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
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<b>Advice on general occupational hygiene</b>	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

##### Ingredient name

N, N-dimethylformamide

##### Exposure limits

**NIOSH REL (United States, 10/2020)** Absorbed through skin.

TWA 10 hours: 10 ppm.

TWA 10 hours: 30 mg/m<sup>3</sup>.

**CAL OSHA PEL (United States, 1/2025)** Absorbed through skin.

TWA 8 hours: 30 mg/m<sup>3</sup>.

TWA 8 hours: 10 ppm.

**OSHA PEL (United States, 5/2018)** Absorbed through skin.

TWA 8 hours: 10 ppm.

TWA 8 hours: 30 mg/m<sup>3</sup>.

**OSHA PEL 1989 (United States, 3/1989)** Absorbed through skin.

TWA 8 hours: 10 ppm.

TWA 8 hours: 30 mg/m<sup>3</sup>.

**ACGIH TLV (United States, 1/2024)** A3. Absorbed through skin.

TWA 8 hours: 5 ppm.

#### Biological exposure indices

##### Ingredient name

N, N-dimethylformamide

##### Exposure indices

**ACGIH BEI (United States, 1/2024)**

BEI: 30 mg/l, total N-methylformamide [in urine]. Sampling time: end of shift.

BEI: 30 mg/l, N-acetyl-S-(N-methylcarbamoyl) cysteine [in urine]. Sampling time: end of shift at end of workweek.

#### Appropriate engineering controls

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

#### Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### Skin protection

##### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

##### Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

##### Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.



**Respiratory protection**

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

**Appearance**

<b>Physical state</b>	Liquid.
<b>Color</b>	Colourless
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Boiling point or initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	Not available.

**Closed cup****Open cup**

	<b>Ingredient name</b>	<b>°C</b>	<b>°F</b>	<b>Method</b>	<b>°C</b>	<b>°F</b>	<b>Method</b>
	N,N-dimethylformamide	57.5	135.5	DIN 51755	56.85	134.3	

<b>Burning time</b>	Not applicable.
<b>Burning rate</b>	Not applicable.
<b>Evaporation rate</b>	Not available.
<b>Flammability</b>	Not available.
<b>Lower and upper explosive (flammable) limits</b>	Not available.
<b>Vapor pressure</b>	Not available.

**Vapor Pressure at 20°C****Vapor pressure at 50°C**

	<b>Ingredient name</b>	<b>mm Hg</b>	<b>kPa</b>	<b>Method</b>	<b>mm Hg</b>	<b>kPa</b>	<b>Method</b>
	water	17.5	2.3				
	N,N-dimethylformamide	3.7	0.49				

<b>Relative vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility in water</b>	Not available.
<b>Partition coefficient: n-octanol/ water</b>	Not applicable.

<b>Auto-ignition temperature</b>	Not available.
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	<b>Ingredient name</b>	<b>°C</b>	<b>°F</b>	<b>Method</b>
	N,N-dimethylformamide	445	833	

<b>Decomposition temperature</b>	Not available.
<b>SADT</b>	Not available.
<b>Viscosity</b>	Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): Not available.
<b>Flow time (ISO 2431)</b>	Not available.

**Particle characteristics**

<b>Median particle size</b>	Not applicable.
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## Section 10. Stability and reactivity

<b>Reactivity</b>	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	The product is stable.
<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	No specific data.

<b>Incompatible materials</b>	No specific data.
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.



## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

**Product/ingredient name**

N, N-dimethylformamide

**Result****Rabbit - Dermal - LD50**

4720 mg/kg

**Rat - Oral - LD50**

2000 mg/kg

**Rat - Inhalation - LC50 Gas.**

3421 ppm [1 hours]

**Rat - Inhalation - LC50 Gas.**

1948 ppm [4 hours]

**Conclusion/Summary  
[Product]**

Not available.

#### Skin corrosion/irritation

Not available.

**Conclusion/Summary  
[Product]**

Not available.

#### Serious eye damage/eye irritation

**Product/ingredient name**

N, N-dimethylformamide

**Result****Rabbit - Eyes - Severe irritant**Amount/concentration applied: 0.1 MI**Conclusion/Summary  
[Product]**

Not available.

#### Respiratory corrosion/irritation

Not available.

**Conclusion/Summary  
[Product]**

Not available.

#### Respiratory or skin sensitization

Not available.

**Skin****Conclusion/Summary  
[Product]**

Not available.

**Respiratory****Conclusion/Summary  
[Product]**

Not available.

#### Germ cell mutagenicity

Not available.

**Conclusion/Summary  
[Product]**

Not available.

#### Carcinogenicity

Not available.

**Conclusion/Summary  
[Product]**

Not available.

**Classification****Product/ingredient name****OSHA****IARC****NTP**

N, N-dimethylformamide	-	2A	-
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**Reproductive toxicity**

Not available.

<b>Conclusion/Summary [Product]</b>	Not available.
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**Specific target organ toxicity (single exposure)**

Not available.

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

Not available.

**Aspiration hazard**

Not available.

<b>Information on the likely routes of exposure</b>	Not available.
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**Potential acute health effects**

<b>Eye contact</b>	No known significant effects or critical hazards.
<b>Inhalation</b>	No known significant effects or critical hazards.
<b>Skin contact</b>	No known significant effects or critical hazards.
<b>Ingestion</b>	No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

<b>Eye contact</b>	No specific data.
<b>Inhalation</b>	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
<b>Skin contact</b>	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
<b>Ingestion</b>	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

**Delayed and immediate effects and also chronic effects from short and long term exposure****Short term exposure**

<b>Potential immediate effects</b>	Not available.
<b>Potential delayed effects</b>	Not available.

**Long term exposure**

<b>Potential immediate effects</b>	Not available.
<b>Potential delayed effects</b>	Not available.

**Potential chronic health effects**

Not available.

<b>Conclusion/Summary [Product]</b>	Not available.
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<b>General</b>	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	May cause cancer. Risk of cancer depends on duration and level of exposure.
<b>Mutagenicity</b>	No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	May damage fertility or the unborn child.

**Numerical measures of toxicity****Acute toxicity estimates**

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Tag A; part of 'ATAC Seq -20 C Kit'	96200.1	52910.1	93698.9	N/A	N/A
N, N-dimethylformamide	2000	1100	1948	N/A	N/A

## Section 12. Ecological information

### Toxicity

**Product/ingredient name**

N, N-dimethylformamide

**Result**
**Acute - LC50 - Fresh water**
Fish - Bluegill - *Lepomis macrochirus* - Juvenile (Fledgling, Hatchling, Weanling)

Weight: 0.912 g

7100 mg/l [96 hours]

Effect: Mortality

**Chronic - NOEC - Fresh water**
Daphnia - Water flea - *Daphnia magna*

Age: &lt;24 hours

1500 mg/l [21 days]

Effect: Reproduction

**Chronic - NOEC - Fresh water**
Fish - Rainbow trout, donaldson trout - *Oncorhynchus mykiss* - Embryo

0.1 ml/l [30 days]

Effect: Mortality

**Acute - EC50 - Fresh water**

ASTM

Daphnia - Water flea - *Daphnia magna*

Age: ≤6 hours

4500 mg/l [48 hours]

Effect: Intoxication

**Conclusion/Summary  
[Product]**

Not available.

### Persistence and degradability

Not available.

**Product/ingredient name**

N, N-dimethylformamide

**Aquatic half-life**

-

**Photolysis**

&gt;90%; 28 day(s)

**Biodegradability**

Readily

### Bioaccumulative potential

**Product/ingredient name**

N,N-dimethylformamide

**LogP<sub>ow</sub>**

-1.01

**BCF**

0.79

**Potential**

Low

### Mobility in soil

**Soil/Water partition coefficient**

Not available.

**Other adverse effects**

No known significant effects or critical hazards.

## Section 13. Disposal considerations


**Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.





## Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification
UN number	UN3082	Not available.	Not available.
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N,N-dimethylformamide)	Not available.	Not available.
Transport hazard class(es)	9	Not available.	Not available.
			
Packing group	III	-	-
Environmental hazards	No.	No.	No.
Additional information	<b>Reportable quantity</b> 4810 lbs / 2183.7 kg. The classification of the product is due solely to the presence of one or more US DOT-listed 'Hazardous substances' that are subject to reportable quantity requirements and only applies to shipments of packages greater than, or equal to, the product reportable quantity. Package sizes less than the product reportable quantity are not regulated as hazardous materials.	-	-
	ADR/RID	IMDG	IATA
UN number	Not available.	Not available.	Not available.
UN proper shipping name	Not available.	Not available.	Not available.
Transport hazard class(es)	Not available.	Not available.	Not available.
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-
Special precautions for user	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.		
Transport in bulk according to IMO instruments	Not available.		
Proper shipping name		Not available.	

## Section 15. Regulatory information

U.S. Federal regulations      **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**Clean Water Act (CWA) 311:** disodium hydrogenorthophosphate

**TSCA 12(b) - Chemical export notification**

Not applicable.

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed
Clean Air Act Section 602 Class I Substances	Not listed
Clean Air Act Section 602 Class II Substances	Not listed
DEA List I Chemicals (Precursor Chemicals)	Not listed
DEA List II Chemicals (Essential Chemicals)	Not listed

**SARA 302/304****Composition/information on ingredients**

No products were found.

**SARA 304 RQ** Not applicable.

**SARA 311/312**

**Classification** CARCINOGENICITY - Category 1B  
TOXIC TO REPRODUCTION - Category 1B

**Composition/information on ingredients**

Name	%	Classification
N, N-dimethylformamide	<2.1	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 3 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1B TOXIC TO REPRODUCTION - Category 1B

**SARA 313**

	Product name	CAS number	%
<b>Form R - Reporting requirements</b>	N,N-dimethylformamide	68-12-2	<2.1
<b>Supplier notification</b>	N,N-dimethylformamide	68-12-2	<2.1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

**State regulations**

<b>Massachusetts</b>	The following components are listed: DIMETHYLFORMAMIDE
<b>New York</b>	The following components are listed: Dimethyl formamide
<b>New Jersey</b>	The following components are listed: DIMETHYLFORMAMIDE
<b>Pennsylvania</b>	The following components are listed: FORMAMIDE, N,N-DIMETHYL-

**California Prop. 65**

**WARNING:** This product can expose you to N,N-Dimethylformamide, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Ingredient name	No significant risk level	Maximum acceptable dosage level
N,N-Dimethylformamide	-	-

**International regulations****Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

**Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants**

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)**

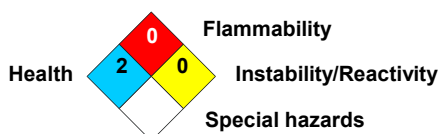
Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

**Inventory list**

<b>United States</b>	All components are active or exempted.
<b>Canada inventory</b>	At least one component is not listed in DSL but all such components are listed in NDLSL.

**Section 16. Other information****National Fire Protection Association (U.S.A.)****Procedure used to derive the classification**

Classification

Justification



CARCINOGENICITY - Category 1B  
TOXIC TO REPRODUCTION - Category 1B

Calculation method  
Calculation method

**History**

**Date of printing** 2/19/2026  
**Date of issue/Date of revision** 2/19/2026  
**Date of previous issue** 6/28/2023  
**Version** 1.01

sds\_author@cytiva.com

**Key to abbreviations**

ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
N/A = Not available  
UN = United Nations  
Not available.

**References**

Indicates information that has changed from previously issued version.

**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

