

SAFETY DATA SHEET

Product Identifier: Maxpar® Nuclear Antigen staining Buffer Concentrate (4X)
SDS ID: MSDS-F00753, Rev: 4.0
Part numbers: S00108 (30 mL), S00111 (8 mL)
(includes Maxpar Nuclear Antigen Staining Buffer Set, Catalog ID 201063, and Panel Kits within the following range of Catalog numbers: 201319 & 201320)
SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
Contact information

General	Fluidigm Corporation 2 Tower Place, Suite 2000, South San Francisco, CA 94080 Main (U.S.): +1 (650) 266-6000 E-mail: techsupport@fluidigm.com
Emergency telephone number	+ (650) 266-6100 (outside US) + (866) 358-4354 (toll free)

Product identifier	Maxpar® Nuclear Antigen Staining Buffer Concentrate (4X)
Synonyms	None identified
Trade names	None identified
Chemical family	Mixture contains formaldehyde.
Relevant identified uses of the substance or mixture and uses advised against	For research use only. Not for use in diagnostic procedures.
Note	This SDS is written to address potential health and safety issues associated with the handling of the formulated product.
Issue Date	July-2020

SECTION 2 - HAZARDS IDENTIFICATION
Classification of the substance or mixture

Globally Harmonized System [GHS]	Germ Cell Mutagenicity - Category 2. Carcinogenic - Category 2. Irritant (skin) - Category 2. Irritant (eye) - Category 2. Skin Sensitizer - Category 1. Specific Target Organ Toxicity (single exposure) - Category 3.
AU Hazard Classification (NOHSC)	Hazardous substance. Dangerous goods.

Label elements
CLP/GHS hazard pictogram

CLP/GHS signal word Danger

CLP/GHS hazard statements H315 - Causes skin irritation. H317 - May cause allergic skin reaction. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H341 - Suspected of causing genetic defects. H351 - Suspected of causing cancer.

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CLP/GHS precautionary statements

P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P261 - Avoid breathing mist or vapor. P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/eye protection/face protection. P302 + P352 - If on skin: Wash with plenty of soap and water. P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 - If exposed or concerned: get medical advice/attention. P312 - Call a Poison Center or doctor/physician if you feel unwell. P332 + P313 - If skin irritation occurs: Get medical advice/attention. P337 + P313 - If eye irritation persists: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse. P403 + P233 - Store in a well-ventilated

Other hazards

Mixture contains formaldehyde.

The major toxic effects caused by acute formaldehyde exposure via inhalation are eye, nose and throat irritation, effects on the nasal cavity, and asthma-like respiratory problems. Other effects include coughing, wheezing, chest pains, and bronchitis. Ingestion has resulted in corrosion of the gastrointestinal tract and inflammation and ulceration of the mouth, esophagus, and stomach. Skin exposure can cause irritation such as dermatitis and itching. Limited data suggests an association between formaldehyde exposure and an increased incidence of lung and nasopharyngeal cancer.

Note

This product is classified as hazardous according to Regulation EC No 1272/2008 (EU CLP) and Hazard Communication Standard No. 1910.1200 (US OSHA).

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS #</u>	<u>EINECS/ELINCS#</u>	<u>Amount</u>	<u>GHS Classification</u>
Formaldehyde	50-00-0	200-001-8	4%	ATO3: H301; ATD3: H311; AT11: H330; GCM2: H341; Carc1B: H350; SC1: H314; SS1: H317; EC1: H318; STOT-S3: H335

Note

The ingredients listed above are considered hazardous. The remaining components are non-hazardous and/or present at amounts below reportable limits. See Section 16 for full text of GHS classifications.

SECTION 4 - FIRST AID MEASURES

Description of first aid measures

Immediate Medical Attention Needed	Yes
Eye Contact	If easy to do, remove contact lenses, if worn. Immediately flush eyes with copious quantities of water for at least 15 minutes. If irritation occurs or persists, notify medical personnel and supervisor.
Skin Contact	Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor.

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Inhalation	Immediately move exposed subject to fresh air. If not breathing, give artificial respiration. If breathing is labored, administer oxygen. Immediately notify medical personnel and supervisor.
Ingestion	Do not induce vomiting unless directed by medical personnel. Do not give anything to drink unless directed by medical personnel. Never give anything by mouth to an unconscious person. Notify medical personnel and supervisor.
Protection of first aid responders	See Section 8 for Exposure Controls/Personal Protection recommendations.
Most important symptoms and effects, both acute and delayed	See Sections 2 and 11.
Indication of immediate medical attention and special treatment needed, if necessary	Medical conditions aggravated by exposure: None known or reported. Treat symptomatically and supportively.

SECTION 5 - FIREFIGHTING MEASURES

Extinguishing media	Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire and materials.
Specific hazards arising from the substance or mixture	No information identified. May emit carbon monoxide or carbon dioxide.
Flammability/Explosivity	Combustible liquid and vapor. Keep away from heat and flame. Vapors are heavier than air and may flow along surfaces to remote ignition sources and flashback.
Advice for firefighters	In case of a fire, keep containers cool with water and remove from fire area. Wear full protective clothing and an approved, positive pressure, self-contained breathing apparatus. Wash all equipment thoroughly after use. Dike area if possible to contain water for later disposal.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	If product is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment (see Section 8). Area should be adequately ventilated. Do not breathe mist/vapors/spray.
Environmental precautions	Do not empty into drains. Avoid release to the environment.
Methods and material for containment and cleaning up	DO NOT CAUSE MATERIAL TO BECOME AIRBORNE. For small spills, soak up material with absorbent, e.g., paper towels. For large spills, cordon off spill area and minimize the spreading of spilled material. Soak up material with absorbent. Collect spilled material, absorbent, and rinse water into suitable containers for proper disposal in accordance with applicable waste disposal regulations (see Section 13). Decontaminate the area twice with an appropriate solvent (see Section 9).
Reference to other sections	See Sections 8 and 13 for more information.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling	If vials are crushed or broken, drug substance may be released into the air. Minimize generation and accumulation of airborne material. Follow recommendations for handling bulk formulated/packaged cytotoxic pharmaceutical agents (i.e., use of engineering controls and/or other personal protective equipment if needed). Wash thoroughly after handling. Avoid breathing vapor or mist. Do not permit eating/drinking/smoking near this material. All materials used for transferring or preparing this product must be considered contaminated and disposed of properly.
Conditions for safe storage including any incompatibilities	Store at 2-8 °C in a well-ventilated area; keep container upright and tightly closed.
Specific end use(s)	No information identified.

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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Note Dispose of broken vials/syringes in a sharps container.

Control Parameters/Occupational Exposure Limit Values

<u>Compound</u>	<u>Issuer</u>	<u>Type</u>	<u>OEL</u>
Formaldehyde	ACGIH, Portugal, Spain	Ceiling	0.3 ppm (sensitizer)
	Australia	STEL	2 ppm
	Australia	TWA-8 HR	1 ppm (sensitizer)
	Austria	TWA-8 HR/Ceiling/STEL	0.5 ppm (skin, sensitizer)
	Brazil	Ceiling	1.6 ppm
	Bulgaria	TWA-8 HR/STEL	1/2 mg/m ³
	Czech Republic	TWA-8 HR/Ceiling	0.5/1 mg/m ³ (skin, sensitizer)
	Denmark	Ceiling	0.3 ppm
	Estonia, Sweden	TWA-8 HR/Ceiling	0.5/1 ppm (sensitizer)
	Finland	TWA-8 HR/Ceiling	0.3/1 ppm
	France	TWA-8 HR/STEL	0.5/1 ppm
	Germany, Slovak Republic	TWA-8 HR/Ceiling	0.3/0.6 ppm (sensitizer)
	Greece, Ireland, United Kingdom	TWA-8 HR/STEL	2 ppm
	Hungary	TWA-8 HR/STEL	0.6 mg/m ³ (sensitizer, skin)
	Latvia	TWA-8 HR	0.5 mg/m ³
	Lithuania	TWA-8 HR/Ceiling	0.5/1.2 ppm (sensitizer)
	Mexico	Ceiling	2 ppm
	Netherlands	TWA-8 HR/STEL	0.15/0.5 mg/m ³
	New Zealand, Sweden	Ceiling	1 ppm (sensitizer)
	NIOSH	Ceiling (15 min)	0.1 ppm
	NIOSH	IDLH	20 ppm
	NIOSH	TWA-8 HR	0.016 ppm
	Poland	TWA-8 HR/STEL	0.5/1 mg/m ³ (sensitizer, skin)
	Romania	TWA-8 HR/STEL	1/2 ppm
	Singapore	STEL	0.3 ppm
	Slovenia	TWA-8 HR/STEL	0.5 ppm (skin)
	OSHA	TWA-8 HR/STEL	0.75/2 ppm

Exposure/Engineering controls If handling bulk product or vials are opened/crushed/broken: Selection and use of containment devices and personal protective equipment should be based on a risk assessment of exposure potential. Open handling should not be performed when handling potent substances, or substances of unknown toxicity. Material should be handled inside a closed process, ventilated enclosure, isolator or device of equivalent or better control that is suitable for dusts and/or aerosols.

Respiratory protection If handling bulk product or vials are opened/crushed/broken: Choice of respiratory protection should be appropriate to the task and the level of existing engineering controls. For routine powder handling tasks, an approved and properly worn powered air-purifying respirator equipped with HEPA filters or combination filters should provide ancillary protection based on the known or foreseeable limitations of existing engineering controls. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, when exposure levels are not known, or in any other circumstances where air purifying respirators may not provide adequate protection.

Hand protection Wear nitrile or other impervious gloves if skin contact is possible. Double gloves should be considered.

Skin protection Wear appropriate gloves, lab coat, or other protective overgarment if skin contact is likely. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use.

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Eye/face protection	Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.
Environmental Exposure Controls	Avoid release to the environment and operate within closed systems wherever practicable. Air and liquid emissions should be directed to appropriate pollution control devices. In case of spill, do not release to drains. Implement appropriate and effective emergency response procedures to prevent release or spread of contamination and to prevent inadvertent contact by personnel.
Other protective measures	Wash hands in the event of contact with this substance, especially before eating, drinking or smoking. Protective equipment is not to be worn outside the work area (e.g., in common areas or out-of-doors).

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Clear liquid
Color	Colorless
Odor	No information identified.
Odor threshold	No information identified.
pH	No information identified.
Melting point/freezing point	5°F
Initial boiling point and boiling range	>200°F
Flash point	No information identified.
Evaporation rate	No information identified.
Flammability (solid, gas)	No information identified.
Upper/lower flammability or explosive limits	No information identified.
Vapor pressure	1.3 mmHg @ 20°C
Vapor density	1.04 g/cm ³
Relative density	No information identified.
Water solubility	Very soluble in water.
Solvent solubility	No information identified.
Partition coefficient (n-octanol/water)	No information identified.
Auto-ignition temperature	No information identified.
Decomposition temperature	No information identified.
Viscosity	No information identified.
Explosive properties	No information identified.
Oxidizing properties	No information identified.
Other information	
Molecular weight	Not applicable (Mixture)

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Molecular formula Not applicable (Mixture)

SECTION 10 - STABILITY AND REACTIVITY

Reactivity No information identified.

Chemical stability Stable when stored as recommended.

Possibility of hazardous reactions No information identified.

Conditions to avoid Avoid contact with heat, sparks, flames or other ignition sources.

Incompatible materials No information identified.

Hazardous decomposition products No information identified.

SECTION 11 - TOXICOLOGICAL INFORMATION
Information on toxicological effects

Route of entry May be absorbed by inhalation, skin contact and ingestion.

Acute toxicity

<u>Compound</u>	<u>Type</u>	<u>Route</u>	<u>Species</u>	<u>Dose</u>
Formaldehyde	LD ₅₀	Oral	Rat	100 mg/kg
	LD ₅₀	Oral	Mouse	42 mg/kg
	LD ₅₀	Dermal	Rabbit	270 mg/kg
	LC ₅₀ (4 hour)	Inhalation	Rat	0.48 mg/L
	LC ₅₀ (4 hour)	Inhalation	Mouse	0.414 mg/L

Irritation/Corrosion Inhaled formaldehyde was irritating to rat eyes and the respiratory system and caused airway resistance at 1-50 ppm. It was irritating to rabbit skin at 5% and a 0.5% formaldehyde solution produced a slight and short-lasting inflammatory reaction.

Sensitization Sensitization was observed in guinea pigs at ≥ 0.5 mg/m³.

STOT-single exposure Acute formaldehyde exposure in rats at inhaled levels of 1-50 ppm caused respiratory and hypothalamic changes. High doses (>100 ppm) caused gastrointestinal (GI) effects.

STOT-repeated exposure/Repeat-dose toxicity Inhalation data from several animal studies indicate that formaldehyde exposure results in neurotoxicity, liver toxicity and adverse effects on the respiratory system at occupationally relevant levels. In guinea pigs, skin exposed to 0.4-4% formaldehyde solution had an increased incidence of erythema and thicker skin. Oral administration of formaldehyde at ≥ 82 mg/kg/day for 18 months resulted in severe damage to the gastric mucosa of rats. The oral NOAEL was 15 mg/kg/day.

Reproductive toxicity No data available.

Developmental toxicity Formaldehyde was not a developmental toxicant in rodents at oral doses up to 185 mg/kg or inhaled doses up to 40 ppm. Reduced fetal body weight was observed at ≥ 20 ppm.

Genotoxicity Formaldehyde was positive for genotoxicity in a battery of in vitro and in vivo tests, including an Ames assay, chromosomal aberration assays, and sister chromatid assays.

Carcinogenicity Inhalation of 14.3 ppm formaldehyde for up to 2 years caused an increase in nasal squamous cell carcinomas in rats. Oral doses at ≥ 50 ppm increased the incidence of GI tumors. Formaldehyde is classified as an IARC 2B compound. Formaldehyde is listed as a known human carcinogen by OSHA. Formaldehyde is classified by ACGIH as a suspected human carcinogen. According to NTP, formaldehyde is a known carcinogen.

Aspiration hazard No data available.

Human health data See Section 2 - "Other hazards"

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SECTION 12 - ECOLOGICAL INFORMATION
Toxicity

<u>Compound</u>	<u>Type</u>	<u>Species</u>	<u>Concentration</u>
Formaldehyde	LC ₅₀ /96h	Fathead minnow	24.1 mg/L (flow-through)
	LC ₅₀ /96h	Brachydanio rerio (zebrafish)	41 mg/L
	EC ₅₀ /48h	Daphnia magna	2 mg/L
	EC ₅₀ /24h	Daphnia magna	42 mg/L

Persistence and Degradability

Formaldehyde is readily biodegradable.

Bioaccumulative potential

The risk for bioaccumulation is low (BCF = 3).

Mobility in soil

Formaldehyde is expected to have a very high mobility in soil.

Results of PBT and vPvB assessment

Not performed.

Other adverse effects

No data identified.

Note

The environmental characteristics of this mixture have not been fully investigated. The above data are for the active ingredient and/or any other ingredient(s) where applicable. Releases to the environment should be avoided.

SECTION 13 - DISPOSAL CONSIDERATIONS
Waste treatment methods

Dispose of wastes in accordance to prescribed federal, state, and local guidelines, e.g., appropriately permitted chemical waste incinerator. Do not send down the drain or flush down the toilet. All wastes containing the material should be properly labeled. Rinse waters resulting from spill cleanups should be discharged in an environmentally safe manner, e.g., appropriately permitted municipal or on-site wastewater treatment facility.

SECTION 14 - TRANSPORT INFORMATION
Transport

This product/mixture is not regulated as a hazardous material/dangerous good under EU ADR/RID, US DOT, Canada TDG, IATA, or IMDG.

UN number

None assigned.

UN proper shipping name

None assigned

Transport hazard classes and packing group

None assigned.

Environmental hazards

Based on the available data, this mixture is not regulated as an environmental hazard or a marine pollutant.

Special precautions for users

Mixture not fully tested - avoid exposure.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Hazardchem Code/HIN

None assigned.

SECTION 15 - REGULATORY INFORMATION
Safety, health and environmental regulations/ legislation specific for the substance or mixture

This SDS complies with the requirements under US, EU and GHS (EU CLP - Regulation EC No 1272/2008) guidelines. Consult your local/regional authorities for more information.

Chemical safety assessment

Not conducted.

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WHMIS classification	GCM2: H341; Carc2: H351; SI2: H315; SS1: H317; EI2: H319; STOT-S3: H335
TSCA status	Formaldehyde is listed.
SARA section 313	Formaldehyde is listed.
California proposition 65	Formaldehyde is listed as carcinogenic.
Component Analysis - State	Formaldehyde is listed as hazardous in AZ, CA, CT, FL, HI, IL, IN, IO, MA, ME, MD, MN, NJ, NM, NV, PA, RI, TN, UT, VT, VA, WA, and WY.
Component Analysis – Chemical Inventory	Formaldehyde is listed in the chemical inventory of the following countries: Australia, Canada, China, EU, Japan, Korea, and New Zealand.

SECTION 16 - OTHER INFORMATION

NFPA Ratings	Formaldehyde	Health: 2	Fire: 0	Reactivity: 2
Full text of H phrases and GHS classifications	ATO3 - Acute Toxicity (Oral) Category 3. H301 - Toxic if swallowed. ATO4 - Acute Toxicity (Oral) Category 4. H302 - Harmful if swallowed. ATD3 - Acute Toxicity (Dermal) Category 3. H311 - Toxic in contact with skin. AT11 - Acute Toxicity (Inhalation) Category 1. AT12 - Acute Toxicity (Inhalation) Category 2. H330 - Fatal if inhaled. SS1 - Skin sensitizer Category 1. H317 - May cause an allergic skin reaction. SC1 - Skin corrosion Category 1. H314 - Causes severe skin burns and eye damage. SI2 - Skin irritant Category 2. H315 - Causes skin irritation. EC1 - Eye corrosion Category 1. H318 - Causes serious eye damage. EI2 - Eye irritant Category 2. H319 - Causes serious eye irritation. STOT-S3 - Specific Target Organ Toxicity Following Single Exposure Category 3. H335 - May cause respiratory irritation. GCM2 - Germ Cell Mutagenicity Category 2. H341 - Suspected of causing genetic defects. Carc1B - Carcinogenic Category 1B. H350 - May cause cancer. Carc2 - Carcinogenicity Category 2. H351 - Suspected of causing cancer.			
Sources of data	Information from published literature and internal company data.			
Abbreviations	ACGIH - American Conference of Governmental Industrial Hygienists; ADR/RID - European Agreement Concerning the International Carriage of Dangerous Goods by Road/Rail; AIHA - American Industrial Hygiene Association; AZ - Arizona; CA - California; CAS# - Chemical Abstract Services Number; CLP - Classification, Labelling, and Packaging of Substances and Mixtures; CT - Connecticut; DNEL - Derived No Effect Level; DOT - Department of Transportation; EINECS - European Inventory of New and Existing Chemical Substances; ELINCS - European List of Notified Chemical Substances; EU - European Union; FL - Florida; GHS - Globally Harmonized System of Classification and Labeling of Chemicals; HI - Hawaii; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IATA - International Air Transport Association; IO - Iowa; IMDG - International Maritime Dangerous Goods; IN - Indiana; MA - Massachusetts; ME - Maine; MD - Maryland; LOEL - Lowest Observed Effect Level; LOAEL - Lowest Observed Adverse Effect Level; NJ - New Jersey; NM - New Mexico; NIOSH - The National Institute for Occupational Safety and Health; NOEL - No Observed Effect Level; NOAEL - No Observed Adverse Effect Level; NTP - National Toxicology Program; NV - Nevada; OEL - Occupational Exposure Limit; OSHA - Occupational Safety and Health Administration; PA - Pennsylvania; PNEC - Predicted No Effect Concentration; SARA - Superfund Amendments and Reauthorization Act; STEL - Short Term Exposure Limit; RI - Rhode Island; TDG - Transportation of Dangerous Goods; TN - Tennessee; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UT - Utah; VA - Virginia; VT - Vermont; WA - Washington State; WHMIS - Workplace Hazardous Materials Information System; WY - Wyoming			
Revisions	Revision 4.0: CHG-002112 Summary of revision: Added reference to Doc ID, added S00111 (8 mL), 201063 and 201319 & 201320 catalogue number in the header			



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Disclaimer

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