

SAFETY DATA SHEET

Product Identifier: Maxpar® Direct™ Immune Profiling Assay
Catalog ID numbers: Cat# S00124 (subcomponent of Cat# 201325)

SDS ID: MSDS-S00124 Rev 2.0

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® Direct™ Immune Profiling Assay |
| Synonyms | None identified |
| Trade names | Maxpar® Direct™ Immune Profiling Assay |
| Chemical family | Mixture - contains polypeptides. |
| Relevant identified uses of the substance or mixture and uses advised against | <i>For Research Use Only. Not for use of diagnostic procedures</i> |

Note This SDS is written to address potential worker health and safety issues associated with the handling of the formulated product/mixture.

SECTION 2 - HAZARDS IDENTIFICATION

Classification of the substance or mixture

| | |
|---|----------------|
| Globally Harmonized System [GHS] | Not classified |
|---|----------------|

Label elements

| | |
|-------------------------------------|---------------|
| GHS hazard pictogram | None required |
| GHS signal word | None required |
| GHS hazard statements | None required |
| GHS precautionary statements | None required |

Other hazards Maxpar® Direct™ Immune Profiling Assay is an antibody-based immune profiling mixture. In a workplace setting, the likelihood of systemic effects following accidental ingestion is low, due to the rapid breakdown of proteins in the digestive tract. Based on the large molecular weight of proteins, systemic absorption following inhalation is anticipated to be low.

Note This mixture does not meet criteria for classification under GHS as implemented by Regulation EC No 1272/2008 (EU CLP), WHMIS 2015 (Health Canada), and Hazard Communication Standard No. 1910.1200 (US OSHA).

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SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Ingredient</u> | <u>CAS #</u> | <u>EINECS/ ELINCS#</u> | <u>Amount</u> | <u>GHS Classification</u> |
|--------------------------|--------------|----------------------------|---------------|---|
| Maxpar® Antibodies | N/A | N/A | 0.1-0.5% | Not classified |
| Ethylene glycol | 107-21-1 | 203-473-3 | 5-15% | ATO4: H302 |
| Sodium azide | 26628-22-8 | 247-852-1 | 0.05-0.15% | ATO2: H300;A1: H400; CA1: H410; EUH032 |
| Sodium Phosphate dibasic | 7558-79-4 | 231-448-7 | 1-5% | SI2: H315; E12: H319 |
| Sodium chloride | 7647-14-5 | 231-598-3 | 1-5% | Not classified |

Note The substances listed above are considered hazardous and/or main active ingredients. The remaining components are not hazardous and/or present at amounts below reportable limits. Sodium chloride is included because it has OELs and is present at or above 1%.

Amounts are listed as ranges; the exact percentage of composition is withheld as a trade secret. See Section 16 for full text of GHS classifications.

SECTION 4 - FIRST AID MEASURES

Description of first aid measures

Immediate Medical Attention Needed

No. If exposed or concerned: Get medical advice/attention.

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.

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 conditions aggravated by exposure: None known or reported. Treat

medical attention and special treatment needed, if necessary

symptomatically and supportively. If accidental exposure occurs to an individual who is also taking one or more concomitant medications, consult the respective package or prescribing information for potential drug interactions.

SECTION 5 - FIREFIGHTING MEASURES

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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, carbon dioxide, oxides of nitrogen and sulfur, and other chlorine-, phosphorus-, and sodium-containing compounds.

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SECTION 5 - FIREFIGHTING MEASURES...continued

Flammability/Explosivity No explosivity or flammability data identified. High concentrations of finely divided airborne organic particles can potentially explode if ignited.

Advice for firefighters Wear full protective clothing and a self-contained breathing apparatus with a full facepiece operated in the pressure demand or other positive pressure mode. Decontaminate all equipment after use.

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 dust.

Environmental precautions Do not empty into drains. Avoid release to the environment.

Methods and material for containment and cleaning up DO NOT RAISE DUST. 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 Follow recommendations for handling pharmaceutical agents (i.e., use of engineering controls and/or other personal protective equipment if needed). Avoid contact with eyes, skin and other mucous membranes. Wash thoroughly after handling. Avoid breathing vapor/mist/spray.

Conditions for safe storage including any incompatibilities Store at 2-8°C in tightly closed container. Avoid strong oxidizers. Store in sealed containers that are appropriately labeled.

Specific end use(s) No information identified.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Note Wash hands, face and other potentially exposed areas immediately in the event of physical contact.

Control Parameters/Occupational Exposure Limit Values

| <u>Compound</u> | <u>Issuer</u> | <u>Type</u> | <u>OEL</u> |
|--------------------|---------------------|-------------------------|---|
| Maxpar® Antibodies | -- | -- | -- |
| Ethylene glycol | ACGIH Austria, | TLV/Ceiling TWA 8-HR | 100 mg/m ³ 10 ppm; 26 mg/m ³ |
| | Germany Austria, | STEL (8 x 5 min) | 20 ppm; 52 mg/m ³ |
| | Germany | | |

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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION...continued

**Control
Parameters/Occupational
Exposure Limit
Values...continued**

| <u>Compound</u> | <u>Issuer</u> | <u>Type</u> | <u>OEL</u> |
|-----------------|--|-------------------|--|
| | Bulgaria, Croatia, Cyprus, Estonia, France, Hungary, Ireland, Italy, Latvia, Luxembourg, Malta, Netherlands, Romania, Slovak Republic, Slovenia, Spain, United Kingdom | TWA 8-HR | 20 ppm; 52 mg/m ³ |
| | Bulgaria, Croatia, Cyprus, Estonia, France, Hungary, Ireland, Italy, Latvia, Luxembourg, Malta, Netherlands, Romania, Slovak Republic, Slovenia, Spain, United Kingdom | STEL | 40 ppm; 104 mg/m ³ |
| | Czech Republic | TWA 8-HR | 50 mg/m ³ |
| | Czech Republic, | Ceiling | 100 mg/m ³ |
| | Italy, Portugal | | |
| | Denmark | TWA 8-HR | 10 ppm; 26 mg/m ³ ; 10 mg/m ³ (vapor) |
| | Finland | TWA 8-HR | 20 ppm, 50 mg/m ³ |
| | Finland | STEL | 40 ppm; 100 mg/m ³ |
| | Greece | TWA 8-HR; STEL | 50 ppm (vapor); 125 mg/m ³ (vapor) |
| | Lithuania, Sweden | TWA 8-HR | 10 ppm (aerosol and vapor); 25 mg/m ³ (aerosol and vapor) |
| | Lithuania, Sweden | STEL | 20 ppm (aerosol and vapor); 50 mg/m ³ (aerosol and vapor) |
| | NIOSH | Ceiling | 50 ppm |
| | Poland | TWA 8-HR | 15 mg/m ³ |
| | Poland | STEL | 50 mg/m ³ |
| | US-OSHA | Ceiling (vacated) | 50 ppm; 125 mg/m ³ |

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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION ...continued

**Control
Parameters/Occupational
Exposure Limit
Values ...continued**

| <u>Compound</u> | <u>Issuer</u> | <u>Type</u> | <u>OEL</u> |
|-----------------|---|-------------|------------------------|
| Sodium azide | ACGIH, Australia, Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Estonia, Finland, France, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Malta, Netherlands, Poland, Romania, Slovakia, Slovenia, Spain, Sweden, U.S.-California OSHA, United | OEL-STEL | 0.3 mg/m ³ |
| | Kingdom New Zealand, | Ceiling | 0.29 mg/m ³ |
| | Portugal | | |
| | ACGIH, Australia, Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Malta, Netherlands, Poland, Romania, Slovakia, Slovenia, Spain, Sweden, U.S.-California OSHA,United | OEL-TWA | 0.1 mg/m ³ |
| | Kingdom NIOSH, U.S.-California | Ceiling | 0.3 mg/m ³ |
| | OSHA | | |



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| | | |
|---------|----------|-----------------------|
| Germany | OEL-STEL | 0.4 mg/m ³ |
| Germany | OEL-TWA | 0.2 mg/m ³ |

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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION ...continued

Control

Parameters/Occupational

Exposure Limit

Values ...continued

| | | | |
|--------------------------|-----------------------------|----|---------------------|
| Sodium Phosphate dibasic | -- | -- | -- |
| Sodium chloride | Latvia, Lithuania, TWA-8 HR | | 5 mg/m ³ |
| | Russia | | |

Exposure/Engineering controls

None required for normal handling of packaged product. If handling bulk product and/or packaging is broken: Selection and use of containment devices and personal protective equipment should be based on a risk assessment of exposure potential. Use engineered local exhaust ventilation (LEV) and/or enclosure at dust generating points and for high dust generating operations such as weighing, material transfers and where energy is used (e.g., milling).

Respiratory protection

None required for normal handling of packaged product. If handling bulk product and/or packaging is 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 fitted air purifying respirator should provide ancillary protection based on the known or foreseeable limitations of existing engineering controls. Use a powered air-purifying respirator equipped with HEPA filters or combination filters or 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 a lower level of respiratory protection may not provide adequate protection.

Hand protection

None required for the normal handling of packaged product. Wear nitrile or other impervious gloves if skin contact with product is possible.

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.

Eye/face protection

None required for normal handling of packaged product. Wear safety glasses with side shields if eye contact is likely, e.g., during clean up of large spill. Base the choice of protection on the job activity and potential for contact with eyes and face.

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 product, 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 | Fluffy solid packaged for reconstitution. |
| Color | White |
| Odor | No information identified. |
| Odor threshold | No information identified. |

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ...continued

| | |
|---|----------------------------|
| pH | No information identified. |
| Melting point/freezing point | No information identified. |
| Initial boiling point and boiling range | Not applicable. |
| Flash point | Not applicable. |
| Evaporation rate | Not applicable. |
| Flammability (solid, gas) | No information identified. |
| Upper/lower flammability or explosive limits | No information identified. |
| Vapor pressure | Not applicable. |
| Vapor density | Not applicable. |
| Relative density | No information identified. |
| Water solubility | Soluble. |
| 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 | Not applicable. |
| Explosive properties | No information identified. |
| Oxidizing properties | No information identified. |
| Other information | |
| Molecular formula | Not applicable (Mixture) |
| Molecular weight | Not applicable (Mixture) |

SECTION 10 - STABILITY AND REACTIVITY

| | |
|---|----------------------------|
| Reactivity | No information identified. |
| Chemical stability | No information identified. |
| Possibility of hazardous reactions | No information identified. |

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SECTION 10 - STABILITY AND REACTIVITY ...continued

Conditions to avoid No information identified.
Incompatible materials No information identified.
Hazardous decomposition products No information identified.

SECTION 11 - TOXICOLOGICAL INFORMATION

Note No data for this product/mixture were identified. The following data describe the individual ingredients where applicable.

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> |
|--------------------------|-------------|--------------|----------------|-----------------------------|
| Maxpar® Antibodies | -- | -- | -- | -- |
| Ethylene glycol | LD50 | Oral | Rat | 4700 mg/kg |
| | LD50 | Oral | Mouse | 5500 mg/kg |
| | LD50 | Oral | Guinea Pig | 6610 mg/kg |
| | LD50 | Oral | Dog | 5500 mg/kg |
| | LD50 | Oral | Cat | 1650 mg/kg |
| Sodium azide | LD50 | Oral | Rat | 27 mg/kg |
| | LD50 | Oral | Mouse | 27 mg/kg |
| | LD50 | Dermal | Rabbit | 20 mg/kg |
| Sodium Phosphate dibasic | LD50 | Oral | Rat | 17000 mg/kg |
| Sodium chloride | LD50 | Oral | Rat | 3000 mg/kg |
| | LD50 | Dermal | Rabbit | >10,000 mg/kg |
| | LC50 | Inhalation | Rat | >42 g/m ³ (1-hr) |
| | LD50 | Oral | Mouse | 4000 mg/kg |

Irritation/Corrosion Sodium Phosphate was irritating to the rabbit skin and eye.

Sensitization No studies identified.

STOT-single exposure No studies identified.

STOT-repeated exposure/Repeat-dose toxicity No studies identified.

Reproductive toxicity No studies identified.

Developmental toxicity No studies identified.

Genotoxicity No studies identified.

Carcinogenicity No studies identified. None of the components of this mixture present at levels greater than or equal to 0.1% are listed by NTP, IARC, ACGIH or OSHA as a carcinogen.

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SECTION 11 - TOXICOLOGICAL INFORMATION ...continued

Aspiration hazard No data available.
Human health data See "Section 2 - Other Hazards"

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity

| <u>Compound</u> | <u>Type</u> | <u>Species</u> | <u>Concentration</u> |
|--------------------------|-------------|--|------------------------------|
| Maxpar® Antibodies | -- | -- | -- |
| Ethylene glycol | EC50/96h | Pseudokirchneriella subcapitata (green algae) | 6500-13000 mg/L |
| | LC50/96h | Oncorhynchus mykiss, rainbow trout | 41000 mg/L |
| | LC50/96h | Oncorhynchus mykiss, rainbow trout | 40761 mg/L [static] |
| | LC50/96h | Lepomis macrochirus, bluegill sunfish | 27540 mg/L [static] |
| | LC50/96h | Pimephales promelus (fathead minnow) | 40000-60000 mg/L [static] |
| | LC50/96h | Poecilia reticulata, freshwater fish | 16000 mg/L [static] |
| | EC50/48h | Daphnia magna | 46300 mg/L |
| Sodium azide | LC50/96h | Oncorhynchus mykiss | 0.8 mg/L |
| | LC50/96h | Lepomis macrochirus | 0.7 mg/L |
| | LC50/96h | Pimephales promelas | 5.46 mg/L |
| Sodium Phosphate dibasic | -- | -- | -- |
| Sodium chloride | EC50/48h | Daphnia magna | 340-1000 mg/L |
| | EC50/96h | Fish (various species) | >4,700 mg/L |

Persistence and Degradability Polypeptides are expected to degrade rapidly when released into the environment.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Results of PBT and vPvB assessment Not performed.

Other adverse effects No data available.

Note The environmental characteristics of this product/mixture have not been fully investigated. The above data are for the active ingredient and/or any other ingredient(s) where applicable. Although present at low concentrations, disposal should consider that sodium azide is present. 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,



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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.

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SECTION 14 - TRANSPORT INFORMATION

| | |
|--|--|
| Transport | Based on the available data, 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 | This product/mixture is not regulated as an environmental hazard or a marine pollutant. |
| Special precautions for users | Avoid release to the environment. |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

SECTION 15 - REGULATORY INFORMATION

| | |
|---|--|
| Safety, health and environmental regulations/legislation specific for the substance or mixture | This SDS generally complies with the requirements listed under current guidelines in the US, EU and Canada. Consult your local or regional authorities for more information. |
| Chemical safety assessment | Not conducted. |
| TSCA status | Not listed. |
| SARA section 313 | Not listed. |
| California proposition 65 | Not listed. |
| Additional information | No other information identified. |

SECTION 16 - OTHER INFORMATION

| | |
|---|--|
| Full text of H phrases and GHS classifications | ATO4 - Acute Toxicity (Oral) Category 4. H302 - Harmful if swallowed. ATO2 - Acute Toxicity (Oral) Category 2. H300 - Fatal if swallowed. AA1- Acute aquatic toxicity Category 1. H400 - Very toxic to aquatic life. CA1 - Chronic Aquatic Toxicity Category 1. H410 - Very toxic to aquatic life with long lasting effects. EUH032 - Contact with acids liberates very toxic gas. SI2 - Skin irritant Category 2. H315 - Causes skin irritation. EI2 - Eye irritant Category 2. H319 - Causes serious eye irritation. |
| Sources of data | Information from published literature and internal company data. |

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SECTION 16 - OTHER INFORMATION...continued

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; CAS# - Chemical Abstract Services Number; CLP - Classification, Labelling, and Packaging of Substances and Mixtures; 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; GHS - Globally Harmonized System of Classification and Labeling of Chemicals; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; LOEL - Lowest Observed Effect Level; LOAEL - Lowest Observed Adverse Effect Level; NIOSH - The National Institute for Occupational Safety and Health; NOEL - No Observed Effect Level; NOAEL - No Observed Adverse Effect Level; NTP - National Toxicology Program; OEL - Occupational Exposure Limit; OSHA - Occupational Safety and Health Administration; PBT - Persistent, Bioaccumulative, and Toxic; PNEC - Predicted No Effect Concentration; SARA - Superfund Amendments and Reauthorization Act; STOT - Specific Target Organ Toxicity; STEL - Short Term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Issue Date

May-2020

Revisions

Revision 02: CHG-001511
Summary of revision: Updated Fluidigm Corporate Address in section 1, Issue date and revision in headed, footer and section 16.

Disclaimer

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Material Safety Data Sheet before handling product. For Research Use Only. Not for use in diagnostic procedures.