

SAFETY DATA SHEET

1. Identification

1.1. Product Name Human Th17 Flow™ Kit (CD3 FITC/CD4 PE/IL-17 Alexa Fluor® 647)

Catalog No. 2297005

1.2. Recommended Use Research use only

1.3. Supplier Address
Telephone, fax,
email
SONY BIOTECHNOLOGY INC.
1730 North First Street, San Jose, CA 95112 U.S.A.
Voice: +1 800-275-5963, FAX: +1 408-352-4130,
SBTcustomerservice@sonybiotechnology.com

1.4. e-mail address of person responsible for this SDS
SBTcustomerservice@sonybiotechnology.com

1.5. Emergency telephone number
In case of a chemical emergency, spill, fire, or exposure
US: +1 800-275-5963 (6:00AM – 5:30PM PT, M-F)

2. Hazards Identification

2.1. Hazard Classification

Skin Sensitization Category 1

Serious Eye Damage Category 1

Carcinogenicity Category 2

2.2. GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H351 Suspected of causing cancer.

Precautionary statement (Prevention)

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P272 Contaminated work clothing should not be allowed out of the workplace.

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Precautionary Statements (Response)

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P310 Immediately call a POISON CENTER or doctor/physician.

Precautionary Statements (Storage)

P405 Store locked up.

Precautionary Statements (Disposal)

P501 Dispose of contents/container to hazardous or special waste collection point.

3. Composition/Information on Ingredients

3.1. Fixation Buffer

Component Paraformaldehyde

CAS 30525-89-4

EINECS unlisted

Concentration 4%

3.2. Anti-human IL-17 Alexa Fluor® 647/CD3 FITC/CD4 PE

Component Sodium Azide

CAS 26628-22-8

EINECS 247-852-1

Concentration 0.09% (w/v)

3.3. Mouse IgG1, κ Isotype Control Alexa Fluor® 647/CD3 FITC/CD4 PE

Component Sodium Azide

CAS 26628-22-8

EINECS 247-852-1

Concentration 0.09% (w/v)

3.4. Permeabilization Buffer

Component Sodium Azide

CAS 26628-22-8

EINECS 247-852-1

Concentration 0.09% (w/v)

4. First Aid Measures

4.1. Description of necessary first aid measures

General Advice Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

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After inhalation	Move to fresh air. If not breathing, give artificial respiration. Consult a physician.
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After skin contact	Wash with soap and copious amounts of water. Consult a physician.
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After eye contact	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the eye lids to ensure thorough rinsing. Consult a physician.
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After swallowing	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
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Symptoms	Contact may cause skin irritation. Contact may cause eye irritation.
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5. Fire-Fighting Measures

5.1. Suitable extinguishing agents	Extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
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5.2. Special hazards caused by the material, its products of combustion or resulting gases	NFPA Class II Combustible Liquid. Dangerous decomposition products include poisonous gases or vapors; formaldehyde. Vapors can form explosive mixture with air. They may also travel to source of ignition. Containers exposed to fire/heat can explode due to pressure. Vapors are sensitive to static electrical discharge.
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5.3. Special protective equipment and precautions for fire-fighters	Wear protective clothing and self-contained breathing apparatus for fire response. Remove containers out of range of fire, if can be done without risk. If not, use water spray to keep containers cool. Any contaminated equipment should be rinsed thoroughly with water if exposed.
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5.4. Hazardous combustion products	No data available.
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6. Accidental Release Measures

6.1. Personal precautions, protective equipment, and emergency procedures	Small spills can often be handled by personnel with chemical training. For large spills, contact emergency personnel immediately. Evacuate and ventilate area. Use protective clothing, gloves and equipment. Avoid formation of dust/vapor. Avoid inhalation or other contact. Keep unnecessary persons away.
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6.2. Environment precautions	Prevent entry into waterways, drains, soil, and sewers.
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6.3. Measures for cleaning/collecting	Absorb material with appropriate absorbent material and dispose in appropriate hazardous waste container.
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6.4. Additional information	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
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7. Handling and Storage

7.1. Precautions for safe handling	Do not get on skin, in eyes, on clothing. Do not breathe dust/vapor. Wash thoroughly after handling. Ensure area is adequately ventilated. Toxicogenic and mutagenic. See section 8 for more information.
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7.2. Conditions for safe storage, including any incompatibilities	Keep container tightly-sealed. Do not store with strong oxidizing agents, bases, acids, or any water reactive materials.
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8. Exposure Controls / Personal Protection

8.1. Exposure Limits	
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Formaldehyde

OSHA PEL	0.75 ppm over an 8-hour shift and 2 ppm during any 15-minute period.
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NIOSH	REL is 0.016 ppm over an 8-hour shift and 2 ppm during any 15-minute period.
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ACGIH TLV is 0.3 ppm.

IARC Group 1 carcinogen.

NTP Suspected carcinogen.

Sodium Azide Suspected carcinogen.

ACGIH TLV is 0.29 mg/m3 Ceiling

NIOSH REL is 0.3 mg/m3 Ceiling

8.2. Exposure Controls

Engineering Controls Use only with adequate (local exhaust) ventilation.

8.3. Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages, and feed.
Wash hands, face, and exposed forearms/areas after handling.
Wash contaminated clothing before reusing.
Ensure eyewash stations and safety showers are in close proximity to workstation.

Breathing equipment May use self-contained breathing apparatus; NIOSH/MSHA-approved respirator.

Hand protection Chemical resistant gloves.

Eye protection Face shield (recommended) and safety goggles.

Body protection Protective work clothing.

9. Physical and Chemical Properties

Appearance	Liquid, Colorless, clear
Odor	Pungent, fruity
Odor threshold	No Data Available
pH	No Data Available
Melting point/freezing point	No Data Available
Boiling point	No Data Available
Flash point	No Data Available
Evaporation rate	No Data Available
Flammability	No Data Available
Upper explosion limit	No Data Available
Lower explosion limit	No Data Available
Vapor pressure	No Data Available
Vapor density	No Data Available
Relative density	No Data Available
Solubility	Soluble
Partition coefficient	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive Properties	No Data Available
Oxidizing Properties	No Data Available

10. Stability and Reactivity

10.1. Reactivity No data available

10.2. Chemical stability Stable when stored under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3. Possibility of hazardous reactions No data available.

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| 10.4. Conditions to avoid | Avoid excessive heat. |
| 10.5. Incompatible materials | Strong oxidizing agents, bases, acids, or any water reactive materials. |
| 10.6. Hazardous decomposition products | Dangerous decomposition products include poisonous gases or vapors; formaldehyde. |

11. Toxicological Information

11.1. Information on toxicological effects

Routes of Entry	Ingestion, inhalation, skin and eye contact.
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Acute Toxicity	Oral LD50 (Paraformaldehyde) 800 mg/kg (rat) Oral LD50 (Sodium Azide) 27 mg/kg (rat)
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Skin Corrosion/Irritation	Irritant
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Serious eye damage/irritation	Irritant
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Respiratory or skin sensitization	Irritant
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Germ cell mutagenicity	Mutagenic effects possible from formaldehyde, the decomposition product of formaldehyde.
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Carcinogenicity	Paraformaldehyde is a suspected carcinogen.
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Reproductive toxicity	Reproductive effects possible from paraformaldehyde, the decomposition products of paraformaldehyde.
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STOT-single exposure	No data available
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STOT-repeated exposure	No data available
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Aspiration hazard	No data available
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11.2. Potential health effects

Inhalation:	May be toxic if inhaled. Causes respiratory tract irritation.
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Ingestion	Harmful if swallowed.
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Skin	Harmful if absorbed through skin. Causes skin irritation.
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Eyes	Causes eye irritation.
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11.3 Signs and Symptoms of Exposure

May cause irreversible eye damage.

12. Ecological Information

12.1. Environmental Toxicity	In large volumes, may be harmful to terrestrial life.
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12.2. Aquatic Toxicity	In large volumes, may be harmful to aquatic life.
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12.3. Persistence and degradability	Formaldehyde can transfer to rain and water due to solubility. Biodegrades significantly in water within days.
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12.4. Bioaccumulative potential	No data available
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12.5. Mobility in soil	Water soluble
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12.4. Results of PBT and vPvT assessment	No data available
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13. Disposal Considerations

13.1. Disposal methods	Minimize waste as much as possible. Not a RCRA hazardous waste. Disposal must be made according to state and federal regulations.
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13.2. Contaminated packaging
(recommended)

Disposal must be made according to state and federal regulations.

13.3. Cleaning agent (recommended)

If product is spilled or leaked, collect on absorbent

14. Transport Information

DOT (Ground)

Not regulated

IMDG

Not regulated

IATA

Not regulated

ADR

Not regulated

ADN

Not regulated

RID

Not regulated

15. Regulatory Information

15.1. Product related hazard information

SARA Section 335 (extremely hazardous substances): Sodium azide and formaldehyde, the decomposition product of paraformaldehyde, is subject to reporting requirements.

SARA Section 313 (specific toxic chemical listing): Sodium azide and formaldehyde, the decomposition product of paraformaldehyde, is subject to reporting requirements. Acute health hazards.

TSCA (Toxic Substances Control Act): Sodium azide and formaldehyde, the decomposition product of paraformaldehyde, is subject to reporting requirements. Acute health hazards.

Paraformaldehyde

Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Sodium Azide

CERCLA Reportable Quantity: 1000 lbs

Formaldehyde

CERCLA Reportable Quantity: 100 lbs California Proposition 65: Formaldehyde is a known carcinogen.

16. Other Information

Revision Date

May 5, 2015

This SDS was created in good faith based on our current knowledge at the time of creation and revision, but no warranty is made on the information, hazards, and toxicity data described. Prior to use, be sure to examine the latest information, rules, laws, and regulations of your country or region concerning hazards and harmful effects as well as regarding equipment to be used, and accord the highest priority to them.

The precautions described in this document assume normal handling of the product. When handling the product in an unconventional manner, be sure to take appropriate safety measures according the situation and take sufficient precautions.

All chemical products should be handled assuming the presence of "unknown hazards and harmful effects" and with the knowledge that such hazards will vary greatly depending on the usage environment, handling method, and conditions and period of storage. All handling of the product, including use, unpacking, storage, and disposal, should be performed only by specialists with professional knowledge and experience or under close supervision of such qualified specialists. It is the sole responsibility of the user to ensure and provide proper safe use conditions.

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