

SAFETY DATA SHEET

Amnis® NFκB Translocation Kit

Section 1. Identification

GHS product identifier	: Amnis NFκB Translocation
Other means of identification	: Kit ACS10000-1 4700-1674 Anti-Hu NFκB Alexa Fluor 488 Antibody 4000-0290 7-AAD Reagent CS202124 5X Assay Buffer CS202125 Permeabilization Buffer ACS10000-2 4300-0340 5X Fixation Buffer
Product type	: Liquid.
Code	:
Identified uses	: For Professional use only. Use as per Product Insert.
Supplier/Manufacturer	: Cytex Biosciences Inc. 10840 Thornmint Rd Suite 100 San Diego, CA 92127 USA Tel: +1-510-657-0102 Toll free: +1-877-922-9835 (US and Canada) Fax: +1-510-657-0151 http://www.cytexbio.com
e-mail address of person responsible for this SDS	: technicalsupport@cytekbio.com
Emergency telephone number (with hours of operation)	: +1 (510) 657-0102 24/7

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	: FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3

GHS label elements for the kit

Hazard pictograms :



Signal word : Danger



Section 2. Hazards identification

Hazard statements	: H227 - Combustible liquid. - H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. - H318 - Causes serious eye damage. - H315 - Causes skin irritation. - H317 - May cause an allergic skin reaction. - H350 - May cause cancer. - H341 - Suspected of causing genetic defects. - H335 - May cause respiratory irritation. - H412 - Harmful to aquatic life with long lasting effects.
<u>Precautionary statements</u>	
Prevention	: P201 - Obtain special instructions before use. - P202 - Do not handle until all safety precautions have been read and understood. - P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. - P210 - Keep away from flames and hot surfaces. - No smoking. - P271 - Use only outdoors or in a well-ventilated area. - P273 - Avoid release to the environment. - P261 - Avoid breathing vapor. - P270 - Do not eat, drink or smoke when using this product. - P264 - Wash hands thoroughly after handling. - P272 (OSHA) - Contaminated work clothing must not be allowed out of the workplace.
Response	: P308 + P313 - IF exposed or concerned: Get medical attention. - P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. - P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. - P302 + P352 + P312 + P363 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Wash contaminated clothing before reuse. - P333 + P313 - If skin irritation or rash occurs: Get medical attention. - P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
Storage	: P405 - Store locked up. - P403 - Store in a well-ventilated place. - P235 - Keep cool.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

GHS label elements by compartment

Hazard pictograms	: 4300-0340	  
Signal word	: 4700-1674 4000-0290 CS202124 CS202125 4300-0340	No signal word. No signal word. No signal word. No signal word. Danger

Section 2. Hazards identification

Hazard statements	: 4700-1674	No known significant effects or critical hazards.
	4000-0290	No known significant effects or critical hazards.
	CS202124	H412 - Harmful to aquatic life with long lasting effects.
	CS202125	H412 - Harmful to aquatic life with long lasting effects.
	4300-0340	H227 - Combustible liquid. H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H318 - Causes serious eye damage. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H350 - May cause cancer. H341 - Suspected of causing genetic defects. H335 - May cause respiratory irritation.
<u>Precautionary statements</u>		
Prevention	: 4700-1674	Not applicable.
	4000-0290	Not applicable.
	CS202124	P273 - Avoid release to the environment.
	CS202125	P273 - Avoid release to the environment.
	4300-0340	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P210 - Keep away from flames and hot surfaces. - No smoking. P271 - Use only outdoors or in a well-ventilated area. P261 - Avoid breathing vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling. P272 (OSHA) - Contaminated work clothing must not be allowed out of the workplace.
Response	: 4700-1674	Not applicable.
	4000-0290	Not applicable.
	CS202124	Not applicable.
	CS202125	Not applicable.
	4300-0340	P308 + P313 - IF exposed or concerned: Get medical attention. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. P302 + P352 + P312 + P363 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Wash contaminated clothing before reuse. P333 + P313 - If skin irritation or rash occurs: Get medical attention. P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
Storage	: 4700-1674	Not applicable.
	4000-0290	Not applicable.
	CS202124	Not applicable.
	CS202125	Not applicable.
	4300-0340	P405 - Store locked up. P403 - Store in a well-ventilated place. P235 - Keep cool.

Section 2. Hazards identification

Disposal	: 4700-1674	Not applicable.
	4000-0290	Not applicable.
	CS202124	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	CS202125	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	4300-0340	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of identification : Not available.

Ingredient name	%	CAS number
CS202124 Sodium Azide	0.1 - 1	26628-22-8
CS202125 Sodium Azide	0.1 - 1	26628-22-8
4300-0340 Formaldehyde	10 - 30	50-00-0

United States: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

Canada: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment 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

- Eye contact** : Get medical attention immediately. Call a poison center or physician. 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 20 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Section 4. First aid measures

- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Chemical burns must be treated promptly by a physician. 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

- | | | |
|---------------------|-------------|--|
| Eye contact | : 4700-1674 | No known significant effects or critical hazards. |
| | 4000-0290 | No known significant effects or critical hazards. |
| | CS202124 | No known significant effects or critical hazards. |
| | CS202125 | No known significant effects or critical hazards. |
| | 4300-0340 | Causes serious eye damage. |
| Inhalation | : 4700-1674 | No known significant effects or critical hazards. |
| | 4000-0290 | No known significant effects or critical hazards. |
| | CS202124 | No known significant effects or critical hazards. |
| | CS202125 | No known significant effects or critical hazards. |
| | 4300-0340 | Harmful if inhaled. May cause respiratory irritation. |
| Skin contact | : 4700-1674 | No known significant effects or critical hazards. |
| | 4000-0290 | No known significant effects or critical hazards. |
| | CS202124 | No known significant effects or critical hazards. |
| | CS202125 | No known significant effects or critical hazards. |
| | 4300-0340 | Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. |
| Ingestion | : 4700-1674 | No known significant effects or critical hazards. |
| | 4000-0290 | No known significant effects or critical hazards. |
| | CS202124 | No known significant effects or critical hazards. |
| | CS202125 | No known significant effects or critical hazards. |
| | 4300-0340 | Harmful if swallowed. |

Over-exposure signs/symptoms

- | | |
|---------------------|--|
| Eye contact | : Adverse symptoms may include the following:
pain
watering
redness |
| Inhalation | : Adverse symptoms may include the following:
respiratory tract irritation
coughing |
| Skin contact | : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur |
| Ingestion | : Adverse symptoms may include the following:
stomach pains |

Indication of immediate medical attention and special treatment needed, if necessary

- | | |
|-----------------------------------|---------------------------------|
| Notes to physician | : None identified. |
| Specific treatments | : No specific treatment. |
| Protection of first-aiders | : No special measures required. |



Section 4. First aid measures

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Combustible liquid. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective actions for fire-fighters : 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : 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

For non-emergency personnel : Put on appropriate personal protective equipment.

For emergency responders : 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".

Environmental precautions : No special requirements.

Methods and materials for containment and cleaning up

Spill : Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene : 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. See also Section 8 for additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas.

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations.
 ACS10000-1: Store at 2°C to 8°C.
 ACS10000-2: Store at room temperature.

Section 8. Exposure controls/personal protection

Control parameters

United States

Occupational exposure limits

Ingredient name	Exposure limits
CS202124 Sodium Azide	ACGIH TLV (United States, 3/2018). C: 0.29 mg/m ³ , (as sodium azide) C: 0.11 ppm, (as Hydrazoic acid vapor) NIOSH REL (United States, 10/2016). Absorbed through skin. CEIL: 0.1 ppm, (as HN3) CEIL: 0.3 mg/m ³ , (NaN3)
CS202125 Sodium Azide	ACGIH TLV (United States, 3/2018). C: 0.29 mg/m ³ , (as sodium azide) C: 0.11 ppm, (as Hydrazoic acid vapor) NIOSH REL (United States, 10/2016). Absorbed through skin. CEIL: 0.1 ppm, (as HN3) CEIL: 0.3 mg/m ³ , (NaN3)
4300-0340 Formaldehyde	OSHA PEL Z2 (United States, 2/2013). TWA: 0.75 ppm 8 hours. STEL: 2 ppm 15 minutes. NIOSH REL (United States, 10/2016). TWA: 0.016 ppm 10 hours. CEIL: 0.1 ppm 15 minutes. OSHA PEL (United States, 5/2018). TWA: 0.75 ppm 8 hours. STEL: 2 ppm 15 minutes. ACGIH TLV (United States, 3/2018). Skin sensitizer. Inhalation sensitizer. STEL: 0.3 ppm 15 minutes. TWA: 0.1 ppm 8 hours.

Canada

Occupational exposure limits

Ingredient name	Exposure limits
CS202124 Sodium Azide	CA Ontario Provincial (Canada, 1/2018). C: 0.29 mg/m ³ , (Dust and fumes) Form: Dust and fumes C: 0.11 ppm, (as Hydrazoic acid vapor) CA Alberta Provincial (Canada, 6/2018). C: 0.11 ppm, (Hydrazoic acid vapors) 15 min OEL: 0.3 mg/m ³ , (Hydrazoic acid vapors) 15 minutes. C: 0.29 mg/m ³ CA British Columbia Provincial (Canada, 7/2018). C: 0.29 mg/m ³ , (as sodium azide) C: 0.11 ppm, (as Hydrazoic acid vapor) CA Quebec Provincial (Canada, 1/2014). STEV: 0.11 ppm 15 minutes. STEV: 0.3 mg/m ³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). CEIL: 0.11 ppm, (measured as hydrazoic acid vapor) CEIL: 0.29 mg/m ³ , (measured as sodium azide)
CS202125 Sodium Azide	CA Ontario Provincial (Canada, 1/2018).



Section 8. Exposure controls/personal protection

4300-0340
Formaldehyde

C: 0.29 mg/m³, (Dust and fumes) Form: Dust and fumes
C: 0.11 ppm, (as Hydrazoic acid vapor)
CA Alberta Provincial (Canada, 6/2018).
C: 0.11 ppm, (Hydrazoic acid vapors)
15 min OEL: 0.3 mg/m³, (Hydrazoic acid vapors) 15 minutes.
C: 0.29 mg/m³
CA British Columbia Provincial (Canada, 7/2018).
C: 0.29 mg/m³, (as sodium azide)
C: 0.11 ppm, (as Hydrazoic acid vapor)
CA Quebec Provincial (Canada, 1/2014).
STEV: 0.11 ppm 15 minutes.
STEV: 0.3 mg/m³ 15 minutes.
CA Saskatchewan Provincial (Canada, 7/2013).
CEIL: 0.11 ppm, (measured as hydrazoic acid vapor)
CEIL: 0.29 mg/m³, (measured as sodium azide)

CA Alberta Provincial (Canada, 6/2018).
CEIL: 1.3 mg/m³
8 hrs OEL: 0.75 ppm 8 hours.
8 hrs OEL: 0.9 mg/m³ 8 hours.
CEIL: 1 ppm
CA British Columbia Provincial (Canada, 7/2018). Skin sensitizer.
Inhalation sensitizer.
TWA: 0.3 ppm 8 hours.
CEIL: 1 ppm
CA Ontario Provincial (Canada, 1/2018).
CEIL: 1.5 ppm
STEL: 1 ppm 15 minutes.
CA Quebec Provincial (Canada, 1/2014).
STEV: 2 ppm 15 minutes.
STEV: 3 mg/m³ 15 minutes.
CA Saskatchewan Provincial (Canada, 7/2013). Skin sensitizer.
CEIL: 0.3 ppm

Appropriate engineering controls : No special ventilation requirements.

Environmental exposure controls : No special measures required.

Individual protection measures

Hygiene measures : Follow good industrial hygiene practice.
Eye/face protection : Not required under normal conditions of use.
Skin protection
Hand protection : Not required under normal conditions of use.
Body protection : Not required under normal conditions of use.
Other skin protection : Not required under normal conditions of use.
Respiratory protection : Not required under normal conditions of use.

Section 9. Physical and chemical properties

Appearance

Physical state : **4700-1674** Liquid.
4000-0290 Liquid. [Clear.]
CS202124 Liquid. [Clear.]
CS202125 Liquid. [Clear.]
4300-0340 Liquid.

Section 9. Physical and chemical properties

Color	: 4700-1674	Not available.
	4000-0290	Not available.
	CS202124	Colorless to light brown.
	CS202125	Colorless to light brown.
	4300-0340	Colorless to off-white.
Odor	: 4700-1674	None.
	4000-0290	None.
	CS202124	None.
	CS202125	None.
	4300-0340	Pungent.
Odor threshold	: Not available.	
pH	: 4700-1674	Not available.
	4000-0290	Not available.
	CS202124	Not available.
	CS202125	Not available.
	4300-0340	Not available.
Melting point	: Not available.	
Initial boiling point and boiling range	: 4700-1674	Not available.
	4000-0290	Not available.
	CS202124	Not available.
	CS202125	Not available.
	4300-0340	Not available.
Flash point	: 4700-1674	Not available.
	4000-0290	Not available.
	CS202124	Not available.
	CS202125	Not available.
	4300-0340	Not available.
Evaporation rate	: Not available.	
Flammability (solid, gas)	: Not available.	
Lower and upper explosive (flammable) limits	: Not available.	
Vapor pressure	: 4700-1674	Not available.
	4000-0290	Not available.
	CS202124	Not available.
	CS202125	Not available.
	4300-0340	Not available.
Vapor density	: 4700-1674	Not available.
	4000-0290	Not available.
	CS202124	Not available.
	CS202125	Not available.
	4300-0340	Not available.
Relative density	: 4700-1674	Not available.
	4000-0290	Not available.
	CS202124	Not available.
	CS202125	Not available.
	4300-0340	Not available.
Solubility	: 4700-1674	Not available.
	4000-0290	Not available.
	CS202124	Not available.
	CS202125	Not available.
	4300-0340	Not available.

Section 9. Physical and chemical properties

Partition coefficient: n-octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	4700-1674 Not available. 4000-0290 Not available. CS202124 Not available. CS202125 Not available. 4300-0340 Not available.
Flow time (ISO 2431)	:	Not available.

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	4700-1674 The product is stable. 4000-0290 The product is stable. CS202124 The product is stable. CS202125 The product is stable. 4300-0340 The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	4700-1674 No specific data. 4000-0290 No specific data. CS202124 No specific data. CS202125 No specific data. 4300-0340 Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	:	4700-1674 Reactive or incompatible with the following materials: oxidizing materials. 4000-0290 Reactive or incompatible with the following materials: oxidizing materials. CS202124 Reactive or incompatible with the following materials: oxidizing materials. CS202125 Reactive or incompatible with the following materials: oxidizing materials. 4300-0340 Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	:	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	Result	Species	Dose	Exposure
CS202124 Sodium Azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -
CS202125 Sodium Azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -
4300-0340 Formaldehyde	LC50 Inhalation Gas. LD50 Dermal LD50 Oral	Rat Rabbit Rat	250 ppm 270 mg/kg 100 mg/kg	4 hours - -

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
4300-0340 Formaldehyde	Eyes - Severe irritant Eyes - Severe irritant Skin - Mild irritant Skin - Moderate irritant Skin - Severe irritant	Rabbit Rabbit Rabbit Rabbit Rabbit	- - - - -	24 hours 750 µg 750 µg 540 mg 24 hours 50 mg 24 hours 2 mg	- - - - -

Sensitization

There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP
4300-0340 Formaldehyde	+	1	Known to be a human carcinogen.

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

Name	Category	Target organs
4300-0340 Formaldehyde	Category 3	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely routes of exposure : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Section 11. Toxicological information

Eye contact	: 4700-1674	No known significant effects or critical hazards.
	4000-0290	No known significant effects or critical hazards.
	CS202124	No known significant effects or critical hazards.
	CS202125	No known significant effects or critical hazards.
	4300-0340	Causes serious eye damage.
Inhalation	: 4700-1674	No known significant effects or critical hazards.
	4000-0290	No known significant effects or critical hazards.
	CS202124	No known significant effects or critical hazards.
	CS202125	No known significant effects or critical hazards.
	4300-0340	Harmful if inhaled. May cause respiratory irritation.
Skin contact	: 4700-1674	No known significant effects or critical hazards.
	4000-0290	No known significant effects or critical hazards.
	CS202124	No known significant effects or critical hazards.
	CS202125	No known significant effects or critical hazards.
	4300-0340	Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: 4700-1674	No known significant effects or critical hazards.
	4000-0290	No known significant effects or critical hazards.
	CS202124	No known significant effects or critical hazards.
	CS202125	No known significant effects or critical hazards.
	4300-0340	Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

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

Short term exposure

Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.

Long term exposure

Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.

Potential chronic health effects

General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: Suspected of causing genetic defects.

Section 11. Toxicological information

Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
4300-0340 Oral Dermal Inhalation (gases)	500 mg/kg 1350 mg/kg 3500 ppm

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
CS202124 Sodium Azide	Acute EC50 0.348 mg/L Fresh water Acute EC50 6.4 mg/L Fresh water Acute EC50 4.2 mg/L Fresh water Acute LC50 0.68 mg/L Fresh water Chronic NOEC 5600 µg/L Marine water	Algae - Pseudokirchneriella subcapitata Crustaceans - Simocephalus serrulatus - Larvae Daphnia - Daphnia pulex - Larvae Fish - Lepomis macrochirus Algae - Macrocystis pyrifera	96 hours 48 hours 48 hours 96 hours 96 hours
CS202125 Sodium Azide	Acute EC50 0.348 mg/L Fresh water Acute EC50 6.4 mg/L Fresh water Acute EC50 4.2 mg/L Fresh water Acute LC50 0.68 mg/L Fresh water Chronic NOEC 5600 µg/L Marine water	Algae - Pseudokirchneriella subcapitata Crustaceans - Simocephalus serrulatus - Larvae Daphnia - Daphnia pulex - Larvae Fish - Lepomis macrochirus Algae - Macrocystis pyrifera	96 hours 48 hours 48 hours 96 hours 96 hours
4300-0340 Formaldehyde	Acute LC50 1170 µl/L Marine water Chronic NOEC 953.9 ppm Fresh water	Crustaceans - Artemia sp. Fish - Oncorhynchus tshawytscha - Egg	48 hours 43 days

Persistence and degradability

There is no data available.

Bioaccumulative potential

There is no data available.

Mobility in soil

Soil/water partition coefficient (K_{oc})	: Not available.
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Other adverse effects	: No known significant effects or critical hazards.
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Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. No specific disposal consideration.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
4300-0340 Formaldehyde	50-00-0	Listed	U122

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	4300-0340 NA1993	Not regulated.	Not regulated.	4300-0340 UN3334
UN proper shipping name	4300-0340 COMBUSTIBLE LIQUID, N.O.S. (Formaldehyde)	-	-	4300-0340 AVIATION REGULATED LIQUID, N.O.S. (Formaldehyde, solution)
Transport hazard class(es)	4300-0340 Combustible liquid.	-	-	4300-0340 9 
Packing group	-	-	-	4300-0340 III
Environmental hazards	4700-1674 No. 4000-0290 No. CS202124 No. CS202125 No. 4300-0340 No.	4700-1674 No. 4000-0290 No. CS202124 No. CS202125 No. 4300-0340 No.	4700-1674 No. 4000-0290 No. CS202124 No. CS202125 No. 4300-0340 No.	4700-1674 No. 4000-0290 No. CS202124 No. CS202125 No. 4300-0340 No.

AERG : 4300-0340

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DOT-RQ Details : **4300-0340**
Formaldehyde

100 lbs / 45.4 kg [14.77 gal / 55.911 L]

Additional information

DOT Classification : **CS202122** **Reportable quantity** 1010.1 lbs / 458.59 kg [123.02 gal / 465.66 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

CS203284 **Reportable quantity** 5000 lbs / 2270 kg. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

Special precautions for user : **Transport within user's premises:** 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.



Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) PAIR:** Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
United States inventory (TSCA 8b): Not determined.
TSCA 12(b) one-time export: None of the components are listed.
TSCA 12(b) annual export notification: None of the components are listed.
Clean Water Act (CWA) 307: None of the components are listed.
Clean Water Act (CWA) 311: Disodium hydrogenorthophosphate; Formaldehyde
Clean Air Act (CAA) 112 regulated toxic substances: Formaldehyde

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

Name	EHS	SARA 302 TPQ		SARA 304 RQ	
		(lbs)	(gallons)	(lbs)	(gallons)
4700-1674 Sodium Azide	Yes.	500	-	1000	-
4000-0290 Sodium Azide	Yes.	500	-	1000	-
CS202124 Sodium Azide	Yes.	500	-	1000	-
CS202125 Sodium Azide	Yes.	500	-	1000	-
4300-0340 Formaldehyde	Yes.	500	73.9	100	14.8

SARA 304 RQ : 2500 lbs / 1135 kg

SARA 311/312

Classification : FLAMMABLE LIQUIDS - Category 4
 ACUTE TOXICITY (oral) - Category 4
 ACUTE TOXICITY (dermal) - Category 4
 ACUTE TOXICITY (inhalation) - Category 4
 SKIN CORROSION/IRRITATION - Category 2
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
 SKIN SENSITIZATION - Category 1
 GERM CELL MUTAGENICITY - Category 2
 CARCINOGENICITY - Category 1B
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3



Section 15. Regulatory information

Composition/information on ingredients

Name	Classification
4300-0340 Formaldehyde	FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SKIN CORROSION/IRRITATION - Category 1B SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

SARA 313

	Product name	CAS number
Form R - Reporting requirements	4300-0340 Formaldehyde	50-00-0
Supplier notification	4300-0340 Formaldehyde	50-00-0

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

- Massachusetts** : The following components are listed: Formaldehyde
New York : The following components are listed: Formaldehyde
New Jersey : The following components are listed: Formaldehyde
Pennsylvania : The following components are listed: Formaldehyde

California Prop. 65



WARNING: This product can expose you to Formaldehyde, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Canadian lists

- Canada inventory (DSL NDSL)** : Not determined.
Canadian NPRI : The following components are listed: Formaldehyde
CEPA Toxic substances : The following components are listed: Formaldehyde

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Ingredient name	List name	Status
Not listed.		

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
CS202124 AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method Calculation method
CS202125 AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method Calculation method
4300-0340 FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Expert judgment Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method

History

Date of issue mm/dd/yyyy	: 08/15/2020
Date of previous issue	: 09/30/2019
Version	: 2
Prepared by	: KMK Regulatory Services Inc.
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) UN = United Nations

Further Information:

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