



MATERIAL SAFETY DATA SHEET

Section 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier:
- Product name: **7-aminoactinomycin D**
- Product no./Catalog #(s): 5121, 6163, 6226
- Internal ID: 7-AAD, 7AAD
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:
- Identified uses: For research use only.
- 1.3 Details of the supplier of the safety data sheet:
- Supplier: ImmunoChemistry Technologies, LLC
9401 James Avenue South, Suite #155
Bloomington, MN 55431-2500 USA
www.immunochemistry.com
1-800-829-3194 and 952-888-8788
Fax 952-888-8988
help@immunochemistry.com
- Contact person: Sally Hed
- 1.4 Emergency telephone number:
1-800-829-3194 / 952-888-8788 (Hours: 8 am-6 pm central standard time, Monday-Friday)

Section 2: Hazards identification

- 2.1 Classification of the substance or mixture:
- Classification (EC 1272/2008)
- Physical and chemical hazards: Not classified.
- Human health: Acute tox. 2 – H300; Acute tox. 1 - H310; Acute Tox. 1 - H330; Skin irrit. 2 – H315; Eye irrit. 2 – H319; STOT Single 3 – H335.
- Environment: Not classified.
- Classification (1999/45/EEC) T+; R26/27/28; Xi; R36/37/38.
- The full text for all R-phrases and hazard statements is displayed in section 16.
- 2.2 Label elements:
- Label in accordance with (EC) No. 1272/2008



- Signal word: Danger.
- Hazard statements:
- H300 Fatal if swallowed.
- H310 Fatal in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H335 May cause respiratory irritation.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+310 If swallowed: immediately call a poison control center or doctor/physician.
- P302+350 If on skin: gently wash with plenty of soap and water.
- P302+352 If on skin: wash with plenty of soap and water.
- P305+351+338 If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a poison control center or doctor/physician.
- P313 Get medical advice/attention.
- Supplementary precautionary statements:
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P264 Wash...thoroughly after handling.
- P270 Do not eat, drink, or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P284 Wear respiratory equipment.

P304+340	If inhaled: remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a poison center or doctor/physician if you feel unwell.
P320	Specific treatment is urgent (see...on this label).
P321	Specific treatment (see...on this label).
P322	Specific measures (see...on this label).
P330	Rinse mouth.
P332+313	If skin irritation occurs: get medical advice/attention.
P337	If eye irritation persists:
P361	Remove/take off immediately all contaminated clothing.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminate clothing before reuse.
P403+233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to...
2.3 Other hazards:	No data available.

Section 3: Composition/information on ingredients

3.1 Substances:	Product name:	7-aminoactinomycin D
	CAS-no.:	7240-37-1
	Gross formula:	C ₆₂ H ₈₇ N ₁₃ O ₁₆

Section 4: First aid measures

4.1 Description of first aid measures:	
General information:	Get medical attention.
Inhalation:	Move the exposed person to fresh air at once. Rinse nose and mouth with water. If breathing stops, provide artificial respiration. Get medical attention. Due to the small packaging the risk of inhalation is minimal.
Ingestion:	NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.
Skin contact:	Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Continue to rinse for at least 15 minutes. Get medical attention.
Eye contact:	Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.
4.2 Most important symptoms and effects, both acute and delayed:	
General information:	The severity of the symptoms described will vary dependant of the concentration and the length of exposure.
Inhalation:	Difficulty in breathing.
Ingestion:	May cause stomach pain or vomiting.
Skin contact:	Skin irritation.
Eye contact:	May severe irritation to eyes.
4.3 Indication of any immediate medical attention and special treatment needed:	No specific first aid measures noted.

Section 5: Firefighting measures

5.1 Extinguishing media:	Water spray, foam, dry powder, or carbon dioxide.
5.2 Special hazards arising from the substance or mixture:	
Hazardous combustion products:	In case of fire, toxic gases (CO, CO ₂ , NO _x) may be formed.
5.3 Advice for firefighters:	
Special firefighting procedures:	No specific firefighting procedure given.
Protective measures in fire:	Wear full protective clothing. Use protective equipment appropriate for surrounding materials.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Provide adequate ventilation. Wear protective clothing as described in section 8 of this safety data sheet. Avoid inhalation of dust and contact with skin and eyes.
6.2 Environmental precautions:	Avoid discharge into drains, water courses or onto the ground.
6.3 Methods and material for containment and clean up:	Avoid dust formation. Collect in containers and seal securely. Remove containers and flush area with water. Do not contaminate water sources or sewer.
6.4 Reference to other sections:	For waste disposal, see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling:	Avoid handling which leads to dust formation. Avoid inhalation of dust and contact with skin and eyes. Wear protective clothing as described in section 8 of this safety data sheet.
7.2 Conditions for safe storage, including any incompatibilities:	Protect from light. Keep in original container. Store at specified temperature. Refer to product label.
Storage class:	Refer to product data sheet.
7.3 Specific end use(s)	No data available.

Section 8: Exposure controls/personal protection

8.1 Control parameters:	
Ingredient comments:	No exposure limits noted for ingredients(s).
8.2 Exposure controls:	

Protective equipment:



Process conditions:	Provide eyewash station.
Engineering measures:	Provide adequate ventilation.
Respiratory equipment:	No specific recommendations. If ventilation is insufficient, suitable respiratory protection must be provided.
Hand protection:	Use suitable protective gloves if risk of skin contact.
Eye protection:	If risk of splashing, wear safety goggles or face shield.
Other protection:	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures:	Do not smoke in work area. Wash at the end of each work shift and before eating, smoking, and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using, do not eat, drink or smoke.
Skin protection:	Wear apron or protective clothing in case of contact.

Section 9: Physical and chemical properties

9.1	Information on basic physical and chemical properties:	
	Appearance:	Powder, dust.
	Color:	Varying.
	Odor:	No data available.
	Solubility:	No data available.
	Initial boiling point and boiling range:	Not determined.
	Melting point (°C):	Not determined.
	Relative density:	Not determined.
	Vapor density (Air =1):	Not determined.
	Vapor pressure:	Not determined.
	Evaporation rate:	Not determined.
	pH-Value, Conc. Solution	Not determined.
	Viscosity:	Not determined.
	Decomposition temperature (°C):	Not determined.
	Odour threshold, lower:	Not determined.
	Flash point (°C):	Not determined.
	Auto ignition temperature (°C):	Not determined.
	Flammability limit – lower (%):	Not determined.
	Flammability limit – upper (%):	Not determined.
	Partition coefficient (N-octanol/water)	Not determined.
	Explosive properties:	Not determined.
	Oxidizing properties:	Not determined.
9.2	Other information:	No data available.

Section 10: Stability and reactivity

10.1	Reactivity:	No data available.
10.2	Chemical stability:	No data available. Stable under normal temperature conditions.
10.3	Possibility of hazardous reactions:	No data available. Hazardous polymerization: will not polymerize.
10.4	Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight.
10.5	Incompatible materials:	Materials to avoid: Strong oxidizing substances. Strong acids. Strong bases.
10.6	Hazardous decomposition products:	No data available.

Section 11: Toxicological information

11.1	Information on toxicological effects:	
	Toxicological information:	No information available.
	Skin corrosion/irritation – animal data:	Not determined.
	Serious eye damage/irritation:	Not determined.
	Respiratory sensitization:	Not determined.
	Skin sensitization:	Not determined.
	Germ cell mutagenicity (in vitro):	Not determined.
	IARC:	Not listed.
	Reproductive toxicity:	Not determined.
	STOT-single exposure:	Not determined.
	STOT-repeated exposure:	Not determined.
	Aspiration hazard:	Not determined.
	Inhalation:	Harmful by inhalation.
	Ingestion:	Harmful if swallowed.
	Skin contact:	Harmful in contact with skin. May cause sensitization by skin contact.
	Eye contact:	May cause severe irritation to eyes.
	Health warnings:	Because of the small quantity, the health hazard is small. Knowledge about health hazard is incomplete.

Section 12: Ecological information

Ecotoxicity:	No data on possible environmental effects have been found.
12.1 Toxicity: Acute toxicity - fish:	No data available.
12.2 Persistence and degradability:	There are no data on the degradability of this product.
12.3 Bioaccumulative potential:	No data available on bioaccumulation.
12.4 Mobility in soil:	No data available.
12.5 Results of PBT and vPvB assessment:	No data available.
12.6 Other adverse effects:	No data available.

Section 13: Disposal considerations

General information: waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local waste disposal authority.

13.1 Waste treatment methods: dispose of waste and residues in accordance with local authority requirements.

Section 14: Transport information

General: no other information noted.

14.1 UN number:	ADR/RID/ADN:	3462
	IMDG:	3462
14.2 UN proper shipping name:	ADR/RID:	Toxins extracted from living sources, solid, NOS (7-aminoactinomycin D).
	IMDG:	Toxins extracted from living sources, solid, NOS (7-aminoactinomycin D).
14.3 Transport hazard class(es):	ADR/RID/ADN:	Class 6.1: toxic substances.
	IMDG:	Class 6.1

Transport labels:



14.4 Packing group:	ADR/RID/ADN:	II
	IMDG:	II
14.5 Environmental hazards: Environmentally hazardous substance/marine pollutant:		No.
14.6 Special precautions for user:		No information available.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:		Not applicable.

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:	
Approved code of practice:	Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.
Guidance notes:	Workplace exposure limits EH40.
EU Legislation:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.
15.2 Chemical safety assessment:	No chemical safety assessment has been carried out.

Section 16: Other information

General information: only trained personnel should use this material.

SDS No: F17-5121-2-A

Date: April 30, 2013

Risk phrases in full:

R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

R36/37/38 Irritating to eyes, respiratory system, and skin.

Hazard statements in full:

H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



MATERIAL SAFETY DATA SHEET

Section 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier:
- Product name: **10X Assay Buffer**
- Product no./Catalog #(s): 685, 686, 6161, 6259
- Internal ID: 10X AB, AB, MitoPT Assay Buffer, Assay Buffer
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:
- Identified uses: For research use only.
- 1.3 Details of the supplier of the safety data sheet:
- Supplier: ImmunoChemistry Technologies, LLC
9401 James Avenue South, Suite #155
Bloomington, MN 55431-2500 USA
www.immunochemistry.com
1-800-829-3194 and 952-888-8788
Fax 952-888-8988
help@immunochemistry.com
- Contact person: Sally Hed
- 1.4 Emergency telephone number:
1-800-829-3194 / 952-888-8788 (Hours: 8 am-6 pm central standard time, Monday-Friday)

Section 2: Hazards identification

- 2.1 Classification of the substance or mixture:
- Classification (EC 1272/2008):
- Physical and chemical hazards: Not classified.
- Human health: Not classified.
- Environment: Not classified.
- Classification (1999/45/EEC): Not classified.
- 2.2 Label elements:
- Label in accordance with (EC) No. 1272/2008: Not classified.
- 2.3 Other hazards: No information available.

Section 3: Composition/information on ingredients

3.2 Mixtures:

Sodium hydrogen phosphate heptahydrate	1-5%
CAS-No.:	7782-85-6
EC No.:	237-707-0
<u>Classification (EC 1272/2008):</u>	<u>Classification (67/548/EEC):</u>
Not classified.	Not classified.

The full text for all R-phrases and hazard statements is displayed in Section 16.

Section 4: First aid measures

- 4.1 Description of first aid measures:
- Inhalation: In case of inhalation of spray mist: move person into fresh air and keep at rest. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
- Ingestion: NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.
- Skin contact: Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
- Eye contact: Promptly wash eyes with plenty of water while lifting the eyelids. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
- 4.2 Most important symptoms and effects, both acute and delayed:
- Inhalation: May cause coughing or mild irritation.
- Ingestion: May cause discomfort if swallowed.
- Skin contact: Prolonged skin contact may cause redness and irritation.
- Eye contact: May cause temporary eye irritation.
- 4.3 Indication of any immediate medical attention and special treatment needed: no specific first aid measures noted.

Section 5: Firefighting measures

- 5.1 Extinguishing media: This product is not flammable. Use fire-extinguishing media appropriate for the surrounding materials.
- 5.2 Special hazards arising from the substance or mixture:
 Hazardous combustion products: None under normal conditions.
 Unusual fire & explosion hazards: No unusual fire or explosion hazards noted.
- 5.3 Advice for firefighters:
 Special firefighting procedures: No specific firefighting procedure given.
 Protective measures in fire: Use protective equipment appropriate for the surrounding materials.

Section 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures: Use protective gloves, goggles, and suitable protective clothing.
- 6.2 Environmental precautions: Do not allow to enter drains, sewers, or watercourses.
- 6.3 Methods and material for containment and clean up: Absorb spillage with suitable absorbent material. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.
- 6.4 Reference to other sections: Wear protective clothing as described in Section 8 of this safety data sheet.

Section 7: Handling and storage

- 7.1 Precautions for safe handling: Avoid spilling, skin and eye contact. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.
- 7.2 Conditions for safe storage, including any incompatibilities: Keep in original container. Store at specified temperature. Refer to product label.
- 7.3 Specific end use(s): The identified uses for this product are detailed in Section 1.2.

Section 8: Exposure controls/personal protection

- 8.1 Control parameters:
- 8.2 Exposure controls:
 Protective equipment:



- Process conditions: Provide eyewash station.
- Engineering measures: Provide adequate ventilation.
- Respiratory equipment: No specific recommendation made.
- Hand protection: Use suitable protective gloves if risk of skin contact.
- Eye protection: If risk of splashing, wear safety goggles or face shield.
- Other protection: Wear appropriate clothing to prevent any possibility of skin contact.
- Hygiene measures: Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink, or smoke.
- Skin protection: Wear apron or protective clothing in case of contact.

Section 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties:
- Appearance: Liquid
- Color: Colorless
- Odor: No characteristic odor.
- Solubility: Soluble in water.
- Initial boiling point and boiling range: <100 @ 760 mm Hg
- Melting point (°C): Not determined.
- Relative density: Not determined.
- Vapor density (Air =1): Not determined.
- Vapor pressure: Not determined.
- Evaporation rate: Not determined.
- pH-value, conc. solution: 6.8-7.0.
- Viscosity: Not determined.
- Solubility value (G/100G H₂O@20°C): Not determined.
- Decomposition temperature (°C): Not determined.
- Flash point (°C): Not applicable.
- Auto ignition temperature (°C): Not determined.
- Flammability limit – lower (%): Not applicable.
- Flammability limit – upper (%): Not applicable.
- Partition coefficient (N-octanol/water): Not determined.
- Explosive properties: Not determined.

Oxidizing properties: Not determined.
 9.2 Other information: None.

Section 10: Stability and reactivity

10.1 Reactivity: No data available.
 10.2 Chemical stability: Stable under normal temperature conditions.
 10.3 Possibility of hazardous reactions: Hazardous polymerization: will not polymerize.
 10.4 Conditions to avoid: Avoid exposure to high temperatures or direct sunlight.
 10.5 Incompatible materials: Materials to avoid: No data available.
 10.6 Hazardous decomposition products: None under normal conditions.

Section 11: Toxicological information

11.1 Information on toxicological effects:
 Toxicological information: No information available.
 Acute toxicity (oral LD50): Not determined.
 Skin corrosion/irritation – human skin model test: Not determined.
 Serious eye damage/irritation: Not determined.
 Respiratory sensitization: Not determined.
 Skin sensitization: Not determined.
 Germ cell mutagenicity (in vitro): Not determined.
 Carcinogenicity: Not determined.
 Reproductive toxicity: Not determined.
 STOT-single exposure: Not determined.
 STOT-repeated exposure: Not determined.
 Aspiration hazard: Not determined.
 Inhalation: In high concentrations, vapors may irritate throat and respiratory system and cause coughing.
 Ingestion: May cause discomfort if swallowed.
 Skin contact: Skin irritation is not anticipated when used normally.
 Eye contact: Spray and vapor in the eyes may cause irritation and smarting.
 Health warnings: Because of quantity and composition, the health hazard is small.
 Route of entry: Ingestion. Skin and/or eye contact.

Section 12: Ecological information

Ecotoxicity: there are no data on the ecotoxicity of this product.

12.1 Toxicity: Acute toxicity: Fish: Not determined.
 12.2 Persistence and degradability: There are no data on the degradability of this product.
 12.3 Bioaccumulative potential: No data available on bioaccumulation.
 12.4 Mobility in soil: The product is soluble in water.
 12.5 Results of PBT and vPvB assessment: No information available.
 12.6 Other adverse effects: Not determined.

Section 13: Disposal considerations

General information: when handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1 Waste treatment methods: dispose of waste and residues in accordance with local authority requirements.

Section 14: Transport information

General: the product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

Road transport notes: Not classified.
 Rail transport notes: Not classified.
 Sea transport notes: Not classified.
 Air transport notes: Not classified.
 14.1 UN number: Not applicable.
 14.2 UN proper shipping name: Not applicable.
 14.3 Transport hazard class(es): Not applicable.
 14.4 Packing group: Not applicable.
 14.5 Environmental hazards: Environmentally hazardous substance/marine pollutant: No.
 14.6 Special precautions for user: Not applicable.
 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable.

Section 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:
Approved code of practice: Classification and labeling of substances and preparations dangerous for supply.
Safety data sheets for substances and preparations.
Guidance notes: Workplace exposure limits EH40.
EU Legislation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.
- 15.2 Chemical safety assessment: No chemical safety assessment has been carried out.

Section 16: Other information

General information: Only trained personnel should use this material.

SDS No: F17-685-2-A

Date: 7/31/2012

Risk phrases in full:

NC Not classified

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



MATERIAL SAFETY DATA SHEET

Section 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier:
- | | |
|---------------------------|--|
| Product name: | CFSE |
| Product no./Catalog #(s): | 5120, 6162, 6176, 6225 |
| Internal ID: | 5(6)-carboxyfluorescein diacetate n-succinimidyl ester; or CFDA SE |
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:
- | | |
|------------------|------------------------|
| Identified uses: | For research use only. |
|------------------|------------------------|
- 1.3 Details of the supplier of the safety data sheet:
- | | |
|-----------------|---|
| Supplier: | ImmunoChemistry Technologies, LLC
9401 James Avenue South, Suite #155
Bloomington, MN 55431-2500 USA
www.immunochemistry.com
1-800-829-3194 and 952-888-8788
Fax 952-888-8988
help@immunochemistry.com |
| Contact person: | Sally Hed |
- 1.4 Emergency telephone number:
1-800-829-3194 / 952-888-8788 (Hours: 8 am-6 pm central standard time, Monday-Friday)

Section 2: Hazards identification

- 2.1 Classification of the substance or mixture:
- | | |
|--------------------------------|-----------------|
| Classification (EC 1272/2008) | |
| Physical and chemical hazards: | Not classified. |
| Human health: | Not classified. |
| Environment: | Not classified. |
| Classification (67/548/EEC) | Not classified. |
- The full text for all R-phrases and hazard statements is listed in Section 16.
- 2.2 Label elements: Label in accordance with (EC) No. 1272/2008: Not classified.
- 2.3 Other hazards: No information available.

Section 3: Composition/information on ingredients

- 3.1 Substances:
- | | |
|----------------|--|
| Product name: | 5(6)-carboxyfluorescein diacetate n-succinimidyl ester |
| CAS number: | 150347-59-4 |
| Gross formula: | C ₂₉ H ₁₉ NO ₁₁ |

Section 4: First aid measures

- 4.1 Description of first aid measures:
- | | |
|---------------|---|
| Inhalation: | Due to the small packaging the risk of inhalation is minimal. In case of inhalation of spray mist: move person into fresh air and keep at rest. Get medical attention if any discomfort continues. |
| Ingestion: | NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues. |
| Skin contact: | Promptly wash contaminated skin with water. Promptly remove clothing if soaked through and wash the skin with water. Get medical attention if any discomfort continues. |
| Eye contact: | Promptly wash eyes with plenty of water while lifting the eyelids. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues. |
- 4.2 Most important symptoms and effects, both acute and delayed:
- | | |
|---------------|--|
| General: | Knowledge about health hazard is incomplete. |
| Inhalation: | May cause coughing or mild irritation. |
| Ingestion: | May cause discomfort if swallowed. |
| Skin contact: | Prolonged skin contact may cause redness and irritation. |
| Eye contact: | May cause temporary eye irritation. |
- 4.3 Indication of any immediate medical attention and special treatment needed: no specific first aid measures noted.

Section 5: Firefighting measures

- 5.1 Extinguishing media: Water spray, foam, dry powder, or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture:
 Hazardous combustion products: Oxides of: carbon; nitrogen.
 Specific hazards: The product is non-combustible. If heated, toxic vapors may be formed.
- 5.3 Advice for firefighters:
 Special firefighting procedures: No specific firefighting procedure given.
 Protective measures in fire: Use protective equipment appropriate for surrounding materials.

Section 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures: Use protective gloves, goggles, and suitable protective clothing. Avoid inhalation of spray mist and contact with skin and eyes.
- 6.2 Environmental precautions: Do not allow to enter drains, sewers, or watercourses.
- 6.3 Methods and materials for containment and clean up: Avoid contact with skin or inhalation of spillage, dust, or vapor. Collect and reclaim or dispose in sealed containers in licensed waste.
- 6.4 Reference to other sections: Wear protective clothing as described in Section 8. For waste disposal, see Section 13.

Section 7: Handling and storage

- 7.1 Precautions for safe handling: Avoid inhalation of dust and contact with skin and eyes. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.
- 7.2 Conditions for safe storage, including any incompatibilities: Protect from light. Keep in original container. Store at specified temperature. Refer to product label.
- 7.3 Specific end use(s) The identified uses for this product are detailed in Section 1.2.

Section 8: Exposure controls/personal protection

- 8.1 Control parameters:
- 8.2 Exposure controls:
 Protective equipment:



- Process conditions: Provide eyewash station.
- Engineering measures: Provide adequate ventilation.
- Respiratory equipment: No specific recommendations. If ventilation is insufficient, suitable respiratory protection must be provided.
- Hand protection: Use suitable protective gloves if risk of skin contact.
- Eye protection: Wear approved chemical safety goggles where eye exposure is reasonably probable.
- Other protection: Wear appropriate clothing to prevent any possibility of skin contact.
- Hygiene measures: DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking, and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink, or smoke. Wash promptly with soap and water if skin becomes contaminated.
- Skin protection: Wear apron or protective clothing in case of contact.

Section 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties:
- Appearance: Powder, dust.
- Color: Varying
- Odor: No characteristic odor.
- Solubility: Soluble in water.
- Melting point (°C): Not determined.
- Relative density: Not determined.
- Vapor density (Air =1): Not applicable.
- Vapor pressure: Not applicable.
- Evaporation rate: Not applicable.
- Viscosity: Not determined.
- Decomposition temperature (°C): Not determined.
- Flash point (°C): Not determined.

	Auto ignition temperature (°C):	Not determined.
	Flammability limit – lower (%):	Not determined.
	Partition coefficient (N-octanol/water)	Not determined.
	Explosive properties:	Not determined.
	Oxidizing properties:	Not determined.
9.2	Other information:	None.

Section 10: Stability and reactivity

10.1	Reactivity:	No data available.
10.2	Chemical stability:	Stable under normal temperature conditions.
10.3	Possibility of hazardous reactions:	Not determined.
10.4	Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight.
10.5	Incompatible materials:	Materials to avoid: Strong oxidizing substances.
10.6	Hazardous decomposition products:	No data available.

Section 11: Toxicological information

11.1	Information on toxicological effects:	
	Toxicological information	No information available.
	Skin corrosion/irritation – human skin model test:	Not determined.
	Serious eye damage/irritation:	Not determined.
	Respiratory sensitization:	Not determined.
	Skin sensitization:	Not determined.
	Germ cell mutagenicity (in vitro):	Not determined.
	Germ cell mutagenicity (in vivo):	Not determined.
	Carcinogenicity:	Not determined.
	Reproductive toxicity	Not determined.
	STOT-single exposure:	Not determined.
	STOT-repeated exposure:	Not determined.
	Aspiration hazard:	Not determined.
	General information:	No specific health warnings noted.
	Inhalation:	In high concentrations, vapors may irritate throat and respiratory system and cause coughing.
	Ingestion:	May cause discomfort if swallowed.
	Skin contact:	Liquid may irritate skin.
	Eye contact:	Spray and vapor in the eyes may cause irritation and smarting.
	Health warnings:	Because of quantity and composition, the health hazard is small. Knowledge about health hazard is incomplete.
	Route of entry:	Skin and/or eye contact.
	Medical symptoms:	No specific symptoms noted.

Section 12: Ecological information

12.1	Acute toxicity – Fish:	Not determined.
12.2	Persistence and degradability:	Degradability: there are no data on the degradability of this product.
12.3	Bioaccumulative potential:	No data available on bioaccumulation.
12.4	Mobility in soil:	No data available.
12.5	Results of PBT and vPvB assessment:	No information available.
12.6	Other adverse effects:	Not determined.

Section 13: Disposal considerations

General information: when handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1	Waste treatment methods: dispose of waste and residues in accordance with local authority requirements.
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Section 14: Transport information

General: the product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

Road transport notes:	Not classified.
Rail transport notes:	Not classified.
Sea transport notes:	Not classified.
Air transport notes:	Not classified.
14.1 UN number:	Not applicable.
14.2 UN proper shipping name:	Not applicable.
14.3 Transport hazard class(es):	Not applicable.
14.4 Packing group:	Not applicable.
14.5 Environmental hazards: Environmentally hazardous substance/marine pollutant:	No.
14.6 Special precautions for user:	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	Not applicable.

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:	
Approved code of practice:	Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.
Guidance notes:	Workplace exposure limits EH40.
EU Legislation:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.
15.2 Chemical safety assessment:	No chemical safety assessment has been carried out.

Section 16: Other information

General information: only trained personnel should use this material.

SDS No: F17-5120-2-A
Date: May 2, 2013

Risk phrases in full:
Caution – substance not yet fully tested.
NC Not classified.

Hazard statements in full: None

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.