

Section 1. Identification of the Substance/Mixture and the Company

1.1 Product Identifier	Product Name: AEC Chromogen Product Number: ACD	
1.2 Intended use	EN: Laboratory reagent. For professional use only. DA: Laboratoriereagens. Kun til professionelt brug. DE: Laboratoriumreagens. Alleen voor professioneel gebruik. EL: Αντιδραστήριο εργαστηρίου. Για επαγγελματική χρήση μόνο. ES: Reactivo de laboratorio. Sólo para uso profesional. FR: Réactif de laboratoire. Pour un usage professionnel uniquement. IT: Laboratorio di reagente. Solo per uso professionale. NL: Laboratoriumreagens. Alleen voor professioneel gebruik. PT: Reagente de laboratório. Para uso profissional. SV: Laboratoriereagens. Endast för yrkesmässig användning.	
1.3 Details of the supplier of the safety data sheet	Manufacturer	ScyTek Laboratories, Inc.
	Address	205 South 600 West Logan, Utah 84321 U.S.A.
	Phone Number	800-729-8350
	Fax Number	435-755-0015
	e-mail	scytek@scytek.com
	Website	scytek.com
1.4 Emergency telephone	(USA) CHEMTREC: 1-800-424-9300	

Section 2. Hazards Identification

2.1 GHS Classification	Flammable liquids (Category3) – H226 Acute toxicity, Oral (Category 3) – H301 Acute toxicity, Inhalation (Category 4) – H332 Acute toxicity, dermal (Category 4) – H312 Eye irritation (Category 2A) – H319 Reproductive toxicity (Category 1B) – H360 Carcinogenicity (Category 1B) – H350
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2.2 Label Elements	Pictogram(s): 									
	Signal word:	Danger								
	Hazard statement(s):	H226 – Flammable liquid and vapor H301 – Toxic if swallowed H332 – Harmful if inhaled H312 – Harmful in contact with skin H360 – May damage fertility or the unborn child H350 – May cause cancer								
	Hazard statement(s) not listed on Label:	H319 – Causes serious eye irritation								
	Precautionary statement(s):	P202: Do not handle until all safety precautions [on SDS] have been read and understood.								
	Precautionary statement(s) not listed on label:	P210 – Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P233 – Keep container tightly closed. P280 – Wear protective gloves/ eye protection/ face protection. P302+ P352 - IF ON SKIN: Wash with plenty of soap and water. P305 + P351 - IF IN EYES: Rinse cautiously with water for several minutes. P301 + P315 – IF SWALLOWED: Get immediate medical advice/attention. P308 + P313 – IF exposed or concerned: Get medical advice/attention. P501 – Dispose of contents/ container to an approved waste disposal plant.								
	<i>For translations of Hazard and Precautionary statements please see Annex III of the CLP regulation: https://echa.europa.eu/regulations/clp/legislation</i>									
NFPA Scale: 0-4										
HMIS (U.S.A.) Scale: 0-4	<table border="1"> <tr><td>HEALTH</td><td>2</td></tr> <tr><td>FLAMMABILITY</td><td>2</td></tr> <tr><td>PHYSICAL HAZARD</td><td>0</td></tr> <tr><td>PERSONAL PROTECTION</td><td>C</td></tr> </table>	HEALTH	2	FLAMMABILITY	2	PHYSICAL HAZARD	0	PERSONAL PROTECTION	C	
HEALTH	2									
FLAMMABILITY	2									
PHYSICAL HAZARD	0									
PERSONAL PROTECTION	C									
2.3 Other Hazards	PBT: This mixture does not contain any substances that are assessed to be a PBT. vPvB: This mixture does not contain any substances that are assessed to be a vPvB.									

Section 3. Composition and Information on Ingredients

3.2 Chemical Description: Mixture

*May contain additional non-hazardous proprietary ingredients.

Prepared according to GHS requirements

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*May contain additional active ingredients at concentrations <0.1%w/v.

Hazardous Ingredients:	CAS#	EC#	GHS Symbols	%
N,N-Dimethylformamide	68-12-2	200-679-5	 Danger. 1A, 1B, H360 May damage fertility or the unborn child.  Warning. H303 May be harmful if swallowed. 4 H312 Harmful in contact with skin. 4 H332 Harmful if inhaled. H316 Causes mild skin irritation. 2 H319 Causes serious eye irritation. 3 H335 May cause respiratory irritation.  Warning. 3 H226 Flammable liquid and vapour.	≤ 100
AEC (3-Amino-9-ethylcarbazole)	132-32-1	205-057-7	 Danger. 2 H350 May cause cancer.  Warning. H316 Causes mild skin irritation.  Danger. 3 H301 Toxic if swallowed.	≤ 2.5

Section 4. First Aid Measures

4.1 Description of first aid measures

Eye Contact: Check for and remove contact lenses. Immediately flush eyes with copious amounts of water and get immediate medical attention.

Skin Contact: Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get medical attention if irritation develops.

Inhalation: If inhaled, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms worsen.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as collar, tie, belt or waistband. Get immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

See section 2.2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

Section 5. Fire Fighting Measures

5.1 Extinguishing Media	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical.
5.2 Special hazards arising from the substance or mixture	Formation of toxic gases may happen.
5.3 Advice for firefighters	As with any fire, wear personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.)

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus.

6.2 Environmental precautions

Keep material away from heat, flame, ignition sources, and reactive materials. Don't allow product to enter drain.

6.3 Methods and materials for containment and cleaning up

Wipe up or absorb spill using inert absorbent and place in a suitable waste container for disposal.

Section 7. Handling and Storage

7.1 Precautions for safe handling.

Avoid contact with skin and eyes.

Wash thoroughly after handling.

Avoid breathing vapor.

7.2 Conditions for safe storage, including any incompatibilities.

Store in well ventilated area.

Keep container tightly closed.

Store at 2-8°C.

7.3 Specific end use(s).

See section 1.2

Section 8. Exposure Controls / Personal Protection

<p>8.1 Control parameters</p>	<p>Exposure Limits: N,N-Dimethylformamide: NIOSH REL: TWA 10 ppm (30 mg/m3) [skin] OSHA PEL: TWA 10 ppm (30 mg/m3) [skin] IDLH 500 ppm</p>
<p>8.2 Exposure controls</p>	<p>Personal Protective Equipment (PPE): Eye/Face protection. Safety glasses or goggles are required. Skin protection. Protective clothing is required. Hand protection. Chemical resistant gloves are required. Glove material must be resistant to the components of this product. Consult glove manufacturer for specific recommendations of appropriate material and thickness of glove. Respiratory protection. Avoid breathing vapor. Environmental exposure controls. Avoid releasing large quantities into the environment. No additional information.</p>
<p>Engineering Controls</p>	<p>Working area should be adequately large and well ventilated to prevent concentration of vapors. Provide mechanical exhaust ventilation or other engineering controls to keep airborne concentrations of vapors below their respective threshold limits.</p>

Section 9. Physical and Chemical Properties

<p>Physical State</p>	<p>Liquid</p>
<p>Color</p>	<p>Dark amber</p>

Odor	Odorless to slightly fishy smell. (amine like)
Odor Threshold	Unknown
pH	Unknown
Melting Point/ Freezing Point	Unknown
Initial Boiling Point	Unknown
Flash Point	Unknown
Evaporation Rate	Unknown
Flammability (solid, gas)	Unknown
Upper/Lower Flammability Limits	Unknown
Vapor Pressure	Unknown
Vapor Density	Unknown
Relative Density	Unknown
Solubility(ies)	Water
Partition Coefficient: n-octanol/water	Unknown
Auto-Ignition Temperature	Unknown
Decomposition Temperature	Unknown
Viscosity	Unknown
Explosive Properties	Not explosive.
Oxidizing Properties	Unknown

Section 10. Stability and Reactivity

10.1 Reactivity	No relevant data available.
10.2 Chemical Stability	Stable under normal temperatures and pressures.
10.3 Possibility of Hazardous Reactions	No hazardous reactions known.
10.4 Conditions to Avoid	Fire, static electricity, direct sunlight.
10.5 Incompatible Materials	Strong oxidizers, strong acids, strong bases. Reducing agents, alkali metals, halogenated agents, nitrates, metal oxides, chloroformates.
10.6 Hazardous Decomposition Materials	Carbon monoxide, oxides of nitrogen, carbon dioxide.

Section 11. Toxicological Information

11.1 Information on Toxicological Effects.	<p>Acute Toxicity. AEC Chromogen (3-Amino-9-ethylcarbazole) Oral LD50: Rat – 144mg/kg</p> <p>Skin Corrosion/Irritation. May be irritating to skin and mucous membranes.</p> <p>Serious Eye Damage/Irritation. Causes serious eye irritation.</p> <p>Respiratory or skin sensitization. No relevant data available.</p> <p>Germ Cell Mutagenicity. No relevant data available.</p>
Carcinogenicity.	<p>International Agency for Research on Cancer (IARC). None of the components are listed.</p>

	National Toxicology Program (NTP). None of the components are listed. Other: AEC (3-Amino-9-ethylcarbazole) is a suspected carcinogen
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Section 12. Ecological Information

12.1 Toxicity	Fish: No relevant studies identified. Crustacea: No relevant studies identified. Algae/Aquatic Plants: No relevant studies identified. Other Organisms: No relevant studies identified.
12.2 Persistence and Degradability.	No relevant studies identified.
12.3 Bioaccumulative Potential.	No relevant studies identified.
12.4 Mobility in Soil.	Miscible in water. May spread in water systems. This component is non-volatile.
Additional Remarks	None.
12.5 Results of PBT and vPvB Assessment.	PBT: This mixture does not contain any substances that are assessed to be a PBT. vPvB: This mixture does not contain any substances that are assessed to be a vPvB.

Section 13. Disposal Considerations

13.1 Waste Disposal Methods.	Sewage disposal is discouraged. Waste should not be disposed of by release to sewers. Dispose waste in accordance with federal, state and local environmental control regulations.
Product/Packaging Disposal.	Final decisions on the appropriate waste management method must be in line with local, regional and national regulations.
Other Disposal Recommendations.	No relevant data available.

Section 14. Transport Information

14.1 UN Number DOT, IATA,IMDG, ADR	DOT: 2265 ADR/RID: 2265 IMDG: 2265 IATA: 2265
14.2 UN Proper Shipping Name DOT, IATA,IMDG, ADR	ADR/RID: N,N-DiMethyl Formamide. IMDG: N,N-DiMethyl Formamide. IATA: N,N-DiMethyl Formamide. DOT: N,N-DiMethyl Formamide.
14.3 Transport Hazard Class(es)	DOT: 3 IATA: 3 IMDG: 3 ADR/RID:3 
14.4 Packing Group DOT, IATA,IMDG, ADR	ADR/RID: III IMDG: III IATA: III

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	DOT: III
14.5 Environmental Hazards	Marine Pollutant: Yes
14.6 Special Precautions for User	Not applicable.

Section 15. Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture.	
Extremely Hazardous Substances; Section 355	None of the components in this mixture are listed.
Toxic Substances Control Act; TSCA	All of the components in this mixture are listed.
California Proposition 65	AEC (3-Amino-9-ethylcarbazole) CAS: 132-32-1 is listed for causing cancer.
Right To Know Components	DiMethyl Formamide Massachusetts Pennsylvania New Jersey AEC Massachusetts Pennsylvania New Jersey
15.2 Chemical Safety Assessment	No Chemical Safety Assessment has been carried out for this substance/mixture by ScyTek Laboratories, Inc.
H and P statements	For translations of Hazard and Precautionary statements please see Annex III of the CLP regulation: https://echa.europa.eu/regulations/clp/legislation

Section 16. Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. ScyTek Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.