

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification

Identification 1.1.

Product form : Mixture

: Aerospray TB Reagent C: ELITe ZN Product name Product code : SS-061CEZ or SS-061CEZ-EU

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Laboratory chemical

1.3. Details of the supplier of the safety data sheet

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1.4. **Emergency telephone number**

Emergency number : Contact your distributor or poison control center in your country.

InfoTrac Emergency Response: Calls within the USA, phone: 1-800-535-5053. Calls outside the USA,

phone: +1 352-323-3500 (call collect)

Customer ID: #90104 (NOTE: this number is required when a customer calls into either phone number

above).

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flam. Liq. 3 H226 - Flammable liquid and vapor Skin Irrit. 2 H315 - Causes skin irritation Eye Dam. 1 H318 - Causes serious eye damage Muta. 2 H341 - Suspected of causing genetic defects

Carc. 1B H350 - May cause cancer (Inhalation, oral)

H373 - May cause damage to organs through prolonged or repeated exposure

Full text of H statements: see section 16

Label elements

GHS US labeling

Hazard pictograms (GHS US)





GHS02

GHS05

GHS08

Signal word (GHS US) : Danger

Hazard statements (GHS US) : H226 - Flammable liquid and vapor

H315 - Causes skin irritation H318 - Causes serious eye damage

H341 - Suspected of causing genetic defects H350 - May cause cancer (Inhalation, oral)

H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.

P243 - Take precautionary measures against static discharge.

P260 - Do not breathe mist, spray, vapors. P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves, protective clothing, eye protection, face protection.

P302+P352 - If on skin: Wash with plenty of soap and water.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

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P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

P314 - Get medical advice/attention if you feel unwell.

P332+P313 - If skin irritation occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use ABC-powder, alcohol resistant foam, BC-powder, carbon dioxide (CO2),

D-powder to extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with

local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
phenol, solid	(CAS-No.) 108-95-2	1-5	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1B, H314 Muta. 2, H341 STOT RE 2, H373
Basic Fuchsin	(CAS-No.) 569-61-9	< 5	Carc. 1B, H350

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show

the label where possible). IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Remove victim to fresh air and keep at

rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel

unwell. Immediately call a poison center or doctor/physician.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately

call a poison center or doctor/physician. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Immediately call a poison center or doctor/physician. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician. Call a

poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Causes severe skin burns and eye damage.

Symptoms/effects after inhalation : Danger of serious damage to health by prolonged exposure through inhalation.

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Serious damage to eyes.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : ABC powder. Alcohol-resistant foam. BC powder. Carbon dioxide. Dry powder. Foam. Water spray.

Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

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5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapor.

Explosion hazard : May form flammable/explosive vapor-air mixture.

Reactivity : Corrosive vapors. Flammable liquid and vapor.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.

Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do not

attempt to take action without suitable protective equipment. Self-contained breathing apparatus.

Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Only qualified personnel

equipped with suitable protective equipment may intervene. Do not breathe

dust/fume/gas/mist/vapors/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper

protection. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or

diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Notify

authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Hygiene measures

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and

when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Do not breathe vapors, spray, mist, fume. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be already regularly. Avail context with this pade use.

in the hazard area must be cleaned regularly. Avoid contact with skin and eyes.

: Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and

receiving equipment. Comply with applicable regulations.

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Storage conditions Keep container tightly closed. Store in a well-ventilated place. Store in a well-ventilated place. Keep

cool. Keep cool. Store locked up.

Incompatible products : Strong bases. Strong acids.

Incompatible materials Sources of ignition. Direct sunlight. Heat sources.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

phenol, solid (108-95-2)		
ACGIH	ACGIH TWA (ppm)	5 ppm
ACGIH	Remark (ACGIH)	URT irr; lung dam; CNS impair
OSHA	OSHA PEL (TWA) (mg/m³)	19 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	5 ppm

8.2. **Exposure controls**

Appropriate engineering controls : Ensure good ventilation of the work station.

Personal protective equipment : Avoid all unnecessary exposure.

Wear protective gloves. Suitable gloves should be tested to EN 374. The glove material has to be Hand protection

> impermeable and resistant to the product/the substance/the preparation. As the product is a preparation of several substances, the resistance and penetration time/breakthrough time of the glove material cannot be calculated/observed in advance and, therefore, has to be checked prior to the application. The following are recommended: materials - natural latex or nitrile; thickness - 4 to 6 mils

(0.1 mm - 0.15 mm); minimum breakthrough time - 60 minutes.

Chemical goggles or face shield. Safety glasses. Eye protection

Skin and body protection Wear suitable protective clothing.

Respiratory protection Wear appropriate mask. Wear respiratory protection.

Environmental exposure controls Avoid release to the environment. Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Color Red Odor Characteristic

Odor threshold : No data available рΗ : 4.8(4.5-5)Melting point Not applicable Freezing point : No data available : No data available **Boiling point** Flash point : ≈ 36 (32 - 38) °C Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available **Explosion limits** : No data available **Explosive properties** No data available Oxidizing properties : No data available Vapor pressure No data available

: No data available Relative density

Relative vapor density at 20 °C No data available

Solubility : Water: No data available

Partition coefficient n-octanol/water (Log Pow) No data available Auto-ignition temperature : No data available Decomposition temperature : No data available

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Viscosity : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive vapors. Flammable liquid and vapor.

10.2. Chemical stability

Flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks. Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Fumes. Carbon monoxide. Carbon dioxide. May release flammable gases. Thermal decomposition generates: Corrosive vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

phenol, solid (108-95-2)		
LD50 oral rat	650 mg/kg (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 14 day(s))	
LD50 dermal rat	660 mg/kg (Equivalent or similar to OECD 402, 24 h, Rat, Female, Experimental value, Dermal, 7 day(s))	
ATE US (oral)	650 mg/kg body weight	
ATE US (dermal)	660 mg/kg body weight	
ATE US (gases)	700 ppmV/4h	
ATE US (vapors)	3 mg/l/4h	
ATE US (dust, mist)	0.5 mg/l/4h	

Basic Fuchsin (569-61-9)	
LD50 oral rat	3200 mg/kg (Rat, Oral)
ATE US (oral)	3200 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.

pH: 4.8 (4.5 – 5)

Serious eye damage/irritation : Causes serious eye damage.

pH: 4.8 (4.5 – 5)

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Suspected of causing genetic defects.

Carcinogenicity : May cause cancer (Inhalation, oral).

phenol, solid (108-95-2)		
IARC group	3 - Not classifiable	
Basic Fuchsin (569-61-9)		
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen	

Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

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STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

phenol, solid (108-95-2)	
LOAEL (dermal,rat/rabbit,90 days)	260 mg/kg body weight Animal: rabbit
NOAEL (dermal,rat/rabbit,90 days)	130 mg/kg body weight Animal: rabbit

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

: Harmful if inhaled.

Symptoms/effects after inhalation : Danger of serious damage to health by prolonged exposure through inhalation.

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Serious damage to eyes.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

phenol, solid (108-95-2)	
LC50 fish 1	8.9 mg/l (US EPA, 96 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value)
EC50 Daphnia 1	18 (18 – 36) mg/l (48 h; Daphnia pulex)
NOEC (chronic)	0.16 mg/l Test organisms (species): Daphnia magna Duration: '16 d'
NOEC chronic fish	0.077 mg/l Test organisms (species): other:Cirrhina mrigala Duration: '60 d'

12.2. Persistence and degradability

Aerospray TB Reagent C: ELITe ZN		
Persistence and degradability	May cause long-term adverse effects in the environment.	
phenol, solid (108-95-2)		
Persistence and degradability	Biodegradable in the soil. Inhibits biodegradation processes in the soil. Readily biodegradable in water. Readily biodegradable in water in anaerobic conditions.	
Biochemical oxygen demand (BOD)	1.68 g O ₂ /g substance	
Chemical oxygen demand (COD)	2.28 g O ₂ /g substance	
ThOD	2.38 g O ₂ /g substance	
Basic Fuchsin (569-61-9)		
Persistence and degradability	Not readily biodegradable in water.	

12.3. Bioaccumulative potential

Aerospray TB Reagent C: ELITe ZN		
Bioaccumulative potential	Not established.	
phenol, solid (108-95-2)		
BCF fish 1	17.5 (OECD 305: Bioconcentration: Flow-Through Fish Test, 3 h, Danio rerio, Flow-through system, Fresh water, Experimental value, Fresh weight)	
Partition coefficient n-octanol/water (Log Pow)	1.47 (Experimental value, Equivalent or similar to OECD 117, 30 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
Basic Fuchsin (569-61-9)		
Partition coefficient n-octanol/water (Log Pow)	-0.21 (Experimental value)	
Bioaccumulative potential	Not bioaccumulative.	

12.4. Mobility in soil

phenol, solid (108-95-2)		
Surface tension	71.3 mN/m (20 °C, 0.118 %)	
Partition coefficient n-octanol/water (Log Koc)	1.15 – 1.86 (log Koc, Calculated value)	
Ecology - soil	Highly mobile in soil.	
Basic Fuchsin (569-61-9)		
Partition coefficient n-octanol/water (Log Koc)	5.377 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Adsorbs into the soil.	

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12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations.

Additional information

Handle empty containers with care because residual vapors are flammable. Flammable vapors may

accumulate in the container.

: Avoid release to the environment. Ecology - waste materials

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1170 Ethyl alcohol solutions, 3, III

UN-No.(DOT) : UN1170

Proper Shipping Name (DOT) : Ethyl alcohol solutions

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Special Provisions (49 CFR 172.102) : 24 - Alcoholic beverages containing more than 70 percent alcohol by volume must be transported as

materials in Packing Group II. Alcoholic beverages containing more than 24 percent but not more than

70 percent alcohol by volume must be transported as materials in Packing Group III.

B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are

applicable.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are

authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T2 - 1.5 178.274(d)(2) Normal...... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport,

and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 4b, 150

DOT Quantity Limitations Passenger aircraft/rail (49 : 60 L

CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 CFR : 220 L

175.75)

DOT Vessel Stowage Location A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger

Emergency Response Guide (ERG) Number 127

Other information : No supplementary information available.

Transportation of Dangerous Goods

No additional information available

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Transport by sea

UN-No. (IMDG) : 1170

Proper Shipping Name (IMDG) : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : III - substances presenting low danger

Air transport

UN-No. (IATA) : 1170

Proper Shipping Name (IATA) : Ethanol solution

Class (IATA) : 3 - Flammable Liquids

Packing group (IATA) : III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

phenol, solid (108-95-2)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313		
CERCLA RQ	1000 lb	
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb 500lb if the substance is solid in powder form with particle size less than 100 microns, or is in solution or molten form	
SARA Section 313 - Emission Reporting	1%	
Basic Fuchsin (569-61-9)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

15.2. International regulations

CANADA

phenol, solid (108-95-2)	
Listed on the Canadian DSL (Domestic Substances List)	
Basic Fuchsin (569-61-9)	
Listed on the Canadian DSI (Demostic Substances List)	

EU-Regulations

No additional information available

National regulations

phenol, solid (108-95-2)			
Listed on EPA Hazardous Air Pollutant (HAPS)			
Basic Fuchsin (569-61-9)			
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)			

15.3. US State regulations

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

Basic Fuchsin (569-61-9)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	
Yes	No	No	No	3 μg/day	

phenol, solid (108-95-2)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

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Basic Fuchsin ((569-61-9)
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U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Other information

: None.

Full text of H-phrases:

to The principles			
H226	Flammable liquid and vapor		
H302	Harmful if swallowed		
H311	Toxic in contact with skin		
H314	Causes severe skin burns and eye damage		
H315	Causes skin irritation		
H318	Causes serious eye damage		
H331	Toxic if inhaled		
H341	Suspected of causing genetic defects		
H350	May cause cancer		
H373	May cause damage to organs through prolonged or repeated exposure		

SDS US Custom - EBS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Reason For Change: updated to latest GHS format and classifications to meet compliance. Added Prop 65 information to Section 15.