## Printing date 11/14/2022

Reviewed on 11/14/2022

# **1** Identification

- · Product name
- · Trade name: CALLERY<sup>TM</sup> Triethylborane-diethylenetriamine, min. 97%
- Item number: 05-0560
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Strem Chemicals, Inc. 7 Mulliken Way NEWBURYPORT, MA 01950 USA info@ascensusspecialties.com
- · Information department: Technical Department
- *Emergency telephone number: EMERGENCY: CHEMTREC: + 1 (800) 424-9300 During normal opening times: +1 (978) 499-1600*

## 2 Hazard(s) identification

· Classification of the substance or mixture

GHS06 Skull and crossbones

Acute Tox. 2 H330 Fatal if inhaled.



GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

GHS07

 Acute Tox. 4
 H302
 Harmful if swallowed.

 Acute Tox. 4
 H312
 Harmful in contact with skin.

 Size G
 H212
 Harmful in contact with skin.

Skin Sens. 1 H317 May cause an allergic skin reaction.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



· Signal word Danger

· Hazard statements

H302+H312 Harmful if swallowed or in contact with skin.

- H330 Fatal if inhaled.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.

(Contd. on page 2)

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CHEMICALS, INC.

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· Precautionary state	ments (Contd. of page
	<i>In case of inadequate ventilation] wear respiratory protection.</i>
P303+P361+P353	f on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water hower.
P305+P351+P338	f in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if presen and easy to do. Continue rinsing.
	mmediately call a POISON CENTER/doctor.
	Store in a well-ventilated place. Keep container tightly closed.
	Dispose of contents/container in accordance with local/regional/national/internationa regulations.
· Classification system	
· NFPA ratings (scale	e 0 - 4)
Health	
Fire =	•
Reaction Reaction	ivity = 0
· HMIS-ratings (scale	2 0 - 4)
	th = 4
FIRE 0 Fire	
REACTIVITY 0 Reac	tivity = 0
• <b>PBT:</b> Not applicable • <b>vPvB:</b> Not applicabl	2. e.
PBT: Not applicable vPvB: Not applicable Composition/info	e. ormation on ingredients ization: Mixtures
• <b>PBT:</b> Not applicable • <b>vPvB:</b> Not applicabl • <b>Composition/info</b> • <b>Chemical character</b> • <b>Description:</b> Mixture	e. p <b>rmation on ingredients</b> <b>ization: Mixtures</b> e of the substances listed below with nonhazardous additions.
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• *Indication of any immediate medical attention and special treatment needed No further relevant information available.* 

### **5** Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

#### **6** Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent. Dispose contaminated material as waste according to item 13.

- Ensure adequate ventilation.
- Reference to other sections
   See Section 7 for information on safe handling.
   See Section 8 for information on personal protection equipment.
   See Section 13 for disposal information.
   Protective Action Criteria for Chemicals

• PAC-1:

None of the ingredients is listed.

None of

None of the ingredients is listed.

· PAC-3:

None of the ingredients is listed.

# 7 Handling and storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

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### 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment: Wear protective clothing
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the eyes and skin.
- Breathing equipment: If necessary, a NIOSH approved respirator in accordance with 29 CFR 1910.134.
- · Protection of hands:



Protective gloves

Gloves must be impervious to the chemical substance

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • *Material of gloves* 

- The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- · Penetration time of glove material
- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection:



Tightly sealed goggles

#### 9 Physical and chemical properties · Information on basic physical and chemical properties **General Information** · Appearance: Form: Liquid Colorless Color: · Odor: Characteristic Not determined. · Odor threshold: Not determined. · pH-value: (Contd. on page 5) US



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		(Contd. of page
<ul> <li>Change in condition Melting point/Melting range: Boiling point/Boiling range:</li> </ul>	Undetermined. 207 °C (405 °F)	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not determined.	
· Ignition temperature:		
Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits: Lower: Upper:	Not determined. Not determined.	
· Vapor pressure:	Not determined.	
· Density: · Relative density · Vapor density · Evaporation rate	Not determined. Not determined. Not determined. Not determined.	
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wat	er): Not determined.	
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
· Solvent content: Organic solvents: VOC content:	0.0 % 0.0 g/l / 0.00 lb/gl	
Solids content: • Other information	100.0 % No further relevant information available.	

# 10 Stability and reactivity

- *Reactivity* No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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# Trade name: CALLERY™ Triethylborane-diethylenetriamine, min. 97%

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1 Tori	cological information
	mation on toxicological effects
	e toxicity:
· Prime · on the	ary irritant effect:
	g caustic effect on skin and mucous membranes.
	t to skin and mucous membranes.
	e eye: Strong caustic effect.
	<i>tization:</i> Sensitization possible through skin contact.
	ional toxicological information:
	roduct shows the following dangers according to internally approved calculation methods for preparations:
Toxic	
Harm	ful
Corre	osive
Irrita	
Very	
	owing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus tomach.
· Carci	nogenic categories
·IARC	C (International Agency for Research on Cancer)
None	of the ingredients is listed.
· NTP	(National Toxicology Program)
None	of the ingredients is listed.
· OSH	4-Ca (Occupational Safety & Health Administration)
None	of the ingredients is listed.
2 Ecol	ogical information
· Toxic	itv
	<i>tic toxicity:</i> No further relevant information available.
	stence and degradability No further relevant information available.
	vior in environmental systems:
· Bioac	ccumulative potential No further relevant information available.
	lity in soil No further relevant information available.
	ional ecological information:
	ral notes:
	r hazard class 1 (Self-assessment): slightly hazardous for water
	ot allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
	not reach bodies of water or drainage ditch undiluted or unneutralized.
	Its of PBT and vPvB assessment
PRI	Not applicable

• *PBT:* Not applicable. • *vPvB:* Not applicable.

• Other adverse effects No further relevant information available.

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# **13 Disposal considerations**

· Waste treatment methods

### · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

UN-Number	
DOT, IMDG, IATA	UN3267
UN proper shipping name	
DOT	Corrosive liquid, basic, organic, n.o.s.
IMDG, IATA	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
Transport hazard class(es)	
DOT	
J. J	
CORROSIVE	
V	
Class	8 Corrosive substances
Label	8
IMDG, IATA	
No. Contraction of the second	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances
EMS Number:	F-A,S-B
Segregation groups	Alkalis
Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.

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15 Regulatory information	
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 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

None of the ingredients is listed.

· Proposition 65

• Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



· Signal word Danger

• Hazard statements

H302+H312 Harmful if swallowed or in contact with skin.

H330 Fatal if inhaled.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

· Precautionary statements

P284 [In case of inadequate ventilation] wear respiratory protection.

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

P305+P351+P338 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 CENTER/doctor.

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P403+P233Store in a well-ventilated place. Keep container tightly closed.P501Dispose of contents/container in accordance with local/regional/national/international<br/>regulations.

#### · National regulations:

- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Technical Department.
- · Contact: Technical Director
- · Date of preparation / last revision 11/14/2022 / -
- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

- DOT: US Department of Transportation IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- *VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic*
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit
- Acute Tox. 4: Acute toxicity Category 4
- Acute Tox. 2: Acute toxicity Category 2
- Skin Corr. 1A: Skin corrosion/irritation Category 1A
- Skin Sens. 1: Skin sensitisation Category 1