GB

Safety data sheet according to 1907/2006/EC, Article 31

CHEMICALS, INC.

according to 1907/2000/EC, Article 51	
Printing date 06.05.2022	Revision: 06.05.2022
SECTION 1: Identification of the substance/mixture and of the compo	any/undertaking
· 1.1 Product identifier	
· Trade name: CALLERY™ Tri-n-butylborane-3-methoxypropylamine, min. 98%	
• Item number: 05-0565 • 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.	
 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: Strem Chemicals, Inc. 7 Mulliken Way NEWBURYPORT, MA 01950 USA info@ascensusspecialties.com 	
 Further information obtainable from: Technical Department 1.4 Emergency telephone number: EMERGENCY: CHEMTREC: + 1 (800) 424-9300 During normal opening times: +1 (978) 499-1600 	
SECTION 2: Hazards identification	
 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS02 flame 	
Flam. Liq. 2 H225 Highly flammable liquid and vapour.	
GHS05 corrosion	
Met. Corr.1 H290 May be corrosive to metals.	
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.	
Skin Sens. 1 H317 May cause an allergic skin reaction.	
 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. Hazard pictograms 	
GHS02 GHS05 GHS07	
· Signal word Danger	(Contd. on page 2)

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Hazard-dei	ermining components of labelling:
	ropylamine
Hazard sta	
H225	Highly flammable liquid and vapour.
H290	May be corrosive to metals.
H302+H31	2 Harmful if swallowed or in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
Precaution	ary statements
P101	<i>If medical advice is needed, have product container or label at hand.</i>
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P303+P36	1+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305+P35	1+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.
P403+P23.	3 Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other h	pazards
Results of I	PBT and vPvB assessment
	1. 11

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

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous compone	ents:		
CAS: 5332-73-0 EINECS: 226-241-3		🚸 Flam. Liq. 3, H226; < Skin Corr. 1A, H314	8.0%
1 1 11.1 1 1 0	•		

• *Additional information:* For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

• 4.1 Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:
- Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

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- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- 6.4 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.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- 7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients 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 valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- 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. Avoid contact with the eyes and skin.
- · Respiratory protection:
- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. 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.

Liquid

Light vellow

Characteristic Not determined.

Not determined.

• Eye protection:



Tightly sealed goggles

· 9.1 I	Information	on b	asic physical	and chemical	l properties
~	1 7 0				

- General Information • Appearance:
- Form: Colour:
- · Odour:
- Odour threshold:
- · pH-value:
- p11-value.
- · Change in condition
 - Melting point/freezing point: Undetermined. Initial boiling point and boiling range: Undetermined.

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Flash point:	8.1 °C
Flammability (solid, gas):	Not determined.
Ignition temperature:	
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapou mixtures are possible.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density at 20 °C:	$0.839 \ g/cm^3$
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	0.0 %
VÕC (EC)	0.00 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

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

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity
- Harmful if swallowed or in contact with skin.
- Primary irritant effect:
- · Skin corrosion/irritation

Causes severe skin burns and eye damage.

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- · Serious eye damage/irritation
- Causes severe skin burns and eye damage.
- · Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- \cdot Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- \cdot **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised.

- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- · Recommendation

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

- Uncleaned packaging:
- *Recommendation: Disposal must be made according to official regulations.*

141 UN Normal an	
· 14.1 UN-Number · ADR, IMDG, IATA	UN1993
\cdot 14.2 UN proper shipping name	
$\cdot ADR$	1993 FLAMMABLE LIQUID, N.O.S. (3-methoxypropylamine
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (3-methoxypropylamine)

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14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
3	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR, IMDG, IATA	Ι
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	33
EMS Number:	<i>F-E,<u>S-E</u></i>
Stowage Category	E
14.7 Transport in bulk according to Ann	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E3
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 300 ml
Transport category	Maximum nei quaniiiy per ouier packaging: 500 mi 1
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E3
······································	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 300 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (
0	METHOXYPROPYLAMINE), 3, I

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category P5c FLAMMABLE LIQUIDS

• Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

• Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· National regulations:

• Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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Trade name: CALLERY[™] Tri-n-butylborane-3-methoxypropylamine, min. 98% (Contd. of page 7) • 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out. **SECTION 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. **Relevant** phrases H226 Flammable liquid and vapour. H314 Causes severe skin burns and eye damage. · Department issuing SDS: Technical Department. · Contact: Technical Director · 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 IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids - Category 3 Met. Corr.1: Corrosive to metals - Category 1 Acute Tox. 4: Acute toxicity - Category 4 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Sens. 1: Skin sensitisation - Category 1 GB



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