

# Safety Data Sheet acc. to OSHA HCS

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<ul> <li>Product identifier</li> </ul>	
<ul> <li>Trade name: <u>EGA</u></li> <li>Synonym 2-[(4-bromophenyl)methyle</li> </ul>	ene]-N-(2,6-dimethylphenyl)-hydrazinecarboxamide
<ul> <li>Article number: 21882</li> <li>CAS Number: 415687-81-9</li> <li>EC number: 809-324-4</li> <li>Application of the substance / the n This product is for research use - Not</li> </ul>	<b>nixture</b> for human or veterinary diagnostic or therapeutic use.
<ul> <li>Details of the supplier of the safety</li> <li>Manufacturer/Supplier: Cayman Chemical Co.</li> <li>1180 E. Ellsworth Rd.</li> <li>Ann Arbor, MI 48108</li> <li>USA</li> </ul>	data sheet
<ul> <li>Information department: Product sa</li> <li>Emergency telephone number: During normal opening times: +1 (734 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970</li> </ul>	
2 Hazard(s) identification	
· Classification of the substance or I	nixture
Classification of the substance or i	nixture
GHS09 Environment	
Ar	nixture H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasti effects.
GHS09 Environment Aquatic Acute 1	H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasti
GHS09 Environment Aquatic Acute 1 Aquatic Chronic 1	H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasti
GHS09 Environment Aquatic Acute 1 Aquatic Chronic 1	H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasti effects.
GHS09 Environment Aquatic Acute 1 Aquatic Chronic 1 GHS07 Skin Irritation 2 Eye Irritation 2A	H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lastin effects. H315 Causes skin irritation.

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· Hazard pictog	(Contd. from page 1)
GHS07 GHS	509
· Signal word W	Varning
· Hazard statem	
H315 Causes s	skin irritation.
H319 Causes s	serious eye irritation.
H335 May caus	se respiratory irritation.
	c to aquatic life with long lasting effects.
· Precautionary	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection / face protection.
P302+P352	If on skin: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
1001	regulations.
· Classification	•
• NFPA ratings	
	ealth = 2
	ire = 0
	eactivity = 0
· HMIS-ratings (	(scale 0 - 4)
HEALTH 2	Health = 2
	Fire = 0
	Reactivity = 0
· Other hazards	

- · Other hazards
- Results of PBT and vPvB assessment PBT: Not applicable.
- **vPvB:** Not applicable.

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### **3** Composition/information on ingredients

- · Chemical characterization: Substances
- CAS No. Description 415687-81-9 EGA
- Identification number(s)
- · EC number: 809-324-4

### **4 First-aid measures**

- Description of first aid measures
- After inhalation: 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. If symptoms persist, consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **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. A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: 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: Substance is not listed.
- PAC-2: Substance is not listed.
- PAC-3: Substance is not listed.

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- · Handling:
- · Precautions for safe handling

7 Handling and storage

No special precautions are necessary if used correctly. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure. Keep away from sources of ignition. Take precautionary measures against static discharge.re.

- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- 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.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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.

#### 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.

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• Eye protection:



Tightly sealed goggles

#### 9 Physical and chemical properties · Information on basic physical and chemical properties General Information · Appearance: Form: Solid Color: Not determined. · Odor: Characteristic · Structural Formula C16H16BrN3O · Molecular Weight 346.2 g/mol · Odor threshold: Not determined. · pH-value: Not applicable. · Change in condition Melting point/Melting range: Undetermined. Boiling point/Boiling range: Undetermined. · Flash point: Not applicable. · Flammability (solid, gaseous): Product is not flammable. · Decomposition temperature: Not determined. · Ignition temperature: Not determined. Danger of explosion: Product does not present an explosion hazard. · Explosion limits: Not determined. Lower: Upper: Not determined. · Vapor pressure: Not applicable. · Density: Not determined. · Relative density Not determined. · Vapor density Not applicable. **Evaporation rate** Not applicable. · Solubility in / Miscibility with Water: Not determined. · Partition coefficient (n-octanol/water): Not determined. · Viscosity: **Dynamic:** Not applicable. **Kinematic:** Not applicable. SOLUBILITY DMSO: 5 mg/ml Other information No further relevant information available.

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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: strong oxidizing agents
- · Hazardous decomposition products:

carbon dioxide, carbon monoxide, hydrogen bromide gas, nitrogen oxides

### **11 Toxicological information**

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

### **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark: Very toxic for fish
- Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

- Very toxic for aquatic organisms
- Results of PBT and vPvB assessment
- **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	not regulated
IMDG, IATA	UN3077
UN proper shipping name	
DOT	not regulated
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANC
	SOLID, N.O.S. (EGA)
ΙΑΤΑ	Environmentally hazardous substance, solid, n.o. (EGA)
Transport hazard class(es)	
DOT	
	not regulated
Class Label	9 Miscellaneous dangerous substances and articles 9
Label Packing group	
Label Packing group DOT	9 not regulated
Label Packing group	9
Label Packing group DOT IMDG, IATA Environmental hazards:	9 not regulated III
Label Packing group DOT IMDG, IATA Environmental hazards: Marine pollutant:	9 not regulated III Symbol (fish and tree)
Label Packing group DOT IMDG, IATA Environmental hazards: Marine pollutant:	9 not regulated III
Label Packing group DOT IMDG, IATA Environmental hazards: Marine pollutant: Special marking (IATA):	9 not regulated III Symbol (fish and tree) Symbol (fish and tree)
Label Packing group DOT IMDG, IATA Environmental hazards: Marine pollutant: Special marking (IATA): Special precautions for user Hazard identification number (Kemler code):	9 not regulated III Symbol (fish and tree) Symbol (fish and tree) Warning: Miscellaneous dangerous substances ar articles
Label Packing group DOT IMDG, IATA Environmental hazards: Marine pollutant: Special marking (IATA): Special precautions for user Hazard identification number (Kemler code): EMS Number:	9 not regulated III Symbol (fish and tree) Symbol (fish and tree) Warning: Miscellaneous dangerous substances ar articles
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Label Packing group DOT IMDG, IATA Environmental hazards: Marine pollutant: Special marking (IATA): Special precautions for user Hazard identification number (Kemler code): EMS Number:	9 not regulated III Symbol (fish and tree) Symbol (fish and tree) Warning: Miscellaneous dangerous substances ar articles 90 F-A,S-F A
Label Packing group DOT IMDG, IATA Environmental hazards: Marine pollutant: Special marking (IATA): Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	9 not regulated III Symbol (fish and tree) Symbol (fish and tree) Warning: Miscellaneous dangerous substances an articles 90 F-A,S-F A SW23 When transported in BK3 bulk container, se

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Transport/Additional information:	
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
ΙΑΤΑ	
Remarks:	When sold in quantities of less than or equal to 1 mL or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimi Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity.
UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (EGA), 9, III

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara
- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is not listed.
- Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) Substance is not listed.
- NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- · Date of preparation / last revision 07/17/2024 / -

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<ul> <li>Abbreviations and acronyms:</li> </ul>	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
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	
Skin Irritation 2: Skin corrosion/irritation – Category 2	
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A	
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - C	ategory 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	0,1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	
* Data compared to the previous version altered.	
Data compared to the previous version altered.	
	US -