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Safety Data Sheet acc. to OSHA HCS

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	ification
· Produ	ct identifier
• Synon 4-meth NSC 40	ylene-1-(1-methylethyl)-bicyclo[3.1.0]hexane 07278
· CAS N 3387-4	
· Other	means of identification
• EC nui 222-21 • Applic	
• Manuf a Cayma 1180 E	s of the supplier of the safety data sheet facturer/Supplier: an Chemical Co. E. Ellsworth Rd. bor, MI 48108
· Emerg During US/CA	nation department: Product safety department Jency telephone number: normal opening times: +1 (734) 971-3335 NADA: 800-424-9300 e US/CANADA: 703-741-5970
2 Hazai	rd(s) identification
	fication of the substance or mixture
	GHS02 Flame
Flamm	H226 Flammable liquid and vapor.
	GHS08 Health hazard
Aspirat	tion hazard 1 H304 May be fatal if swallowed and enters airways
	GHS07

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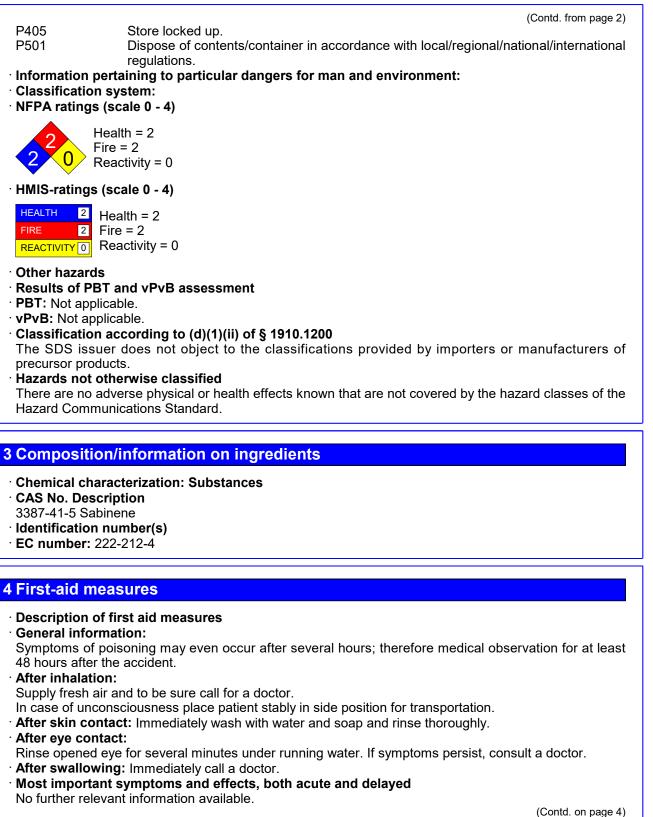
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			(Contd. from page 1)
Acute toxicity - or		H302 Harmful if swallowed.	(Conta: nom page 1)
•			
Skin irritation 2		H315 Causes skin irritation.	
Eye irritation 2A		H319 Causes serious eye irritation.	
Sensitization - ski	n 1	H317 May cause an allergic skin rea	iction.
Specific target or	an toxicity (single exposure) 3	H335 May cause respiratory irritatior	۱.
Label elements			
· GHS label eleme	nte		
		ng to the Globally Harmonized System	(GHS)
Hazard pictogra			(0110).
- {() } / ()			
GHS02 GHS07	GHS08		
· Signal word Dan			
 Hazard statemer 			
H226 Flammable			
H302 Harmful if s			
H315 Causes skir			
H319 Causes ser			
	an allergic skin reaction.		
H304 May be fate	respiratory irritation. I if swallowed and enters airwa		
· Precautionary st		lys.	
P210		irfaces, sparks, open flames and othe	r ignition sources
1210	No smoking.		ingrittori sources.
P240	Ground / bond container and	receiving equipment.	
P241		al/ventilating/lighting] equipment.	
P242	Use non-sparking tools.		
P243	Take action to prevent static	discharge.	
P261	Avoid breathing dust/fume/ga		
P264	Wash thoroughly after handling		
P270	Do not eat, drink or smoke w		
P271	Use only outdoors or in a wel		
P272		must not be allowed out of the workpla	
P280	protection.	tective clothing/eye protection/face p	protection/nearing
P301+P310	If swallowed: Immediately cal	Il a noison center/doctor	
P321	Specific treatment (see on thi		
P331	Do NOT induce vomiting.		
		immediately all contaminated clothin	a. Rinse skin with
	water [or shower].	,	0
P304+P340		o fresh air and keep comfortable for br	reathing.
P305+P351+P338	3 If in eyes: Rinse cautiously w	ith water for several minutes. Remove	e contact lenses, if
	present and easy to do. Cont	inue rinsing.	
P330	Rinse mouth.		
P362+P364	Take off contaminated clothin		
P333+P313		s: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get n		
P370+P378		vder or water spray to extinguish.	
P403+P233		ce. Keep container tightly closed.	
P403+P235	Store in a well-ventilated place		(Contd. on page 3)

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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:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- 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 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). Dispose contaminated material as waste according to section 13.
- Ensure adequate ventilation.
- Protective Action Criteria for Chemicals
- PAC-1: Substance is not listed.
- · PAC-2: Substance is not listed.
- · PAC-3: Substance is not listed.
- 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.

7 Handling and storage

Precautions for safe handling
 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: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · 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.

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8 Exposure controls/personal protection

- · 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
- Appropriate engineering controls No further data; see section 7.
- 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.

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

- Information on basic physical and chemical properties
- · General Information
- Physical state
 Color:
- · Odor:
- Structural Formula
- · Molecular Weight
- · Storage Buffer
- · Odor threshold:

Liquid Not determined. Characteristic C10H16 136.2 g/mol

Not determined.

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· Formulation	
 Melting point/Melting range: 	Undetermined.
 Boiling point/Boiling range: 	Undetermined.
Flammability:	Flammable.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	≤60 °C (≤140 °F)
 Decomposition temperature: 	Not determined.
· pH-value:	Not determined.
· Viscosity:	
· Kinematic:	Not determined.
SOLUBILITY	DMF: 20 mg/ml; DMSO: 20 mg/ml; Ethanol: 20 mg/
	ml; Ethanol:PBS (pH 7.2)(1:2): 0.33 mg/ml
· Dynamic:	Not determined.
 Solubility in / Miscibility with 	
· Water:	Not determined.
Partition coefficient (n-octanol/water):	Not determined.
Vapor pressure:	Not determined.
Vapor pressure:	
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
· Particle characteristics	Not applicable.
• Other information	
· Appearance:	
Form:	neat oil
· Important information on protection of health	
and environment, and on safety.	
Ignition temperature:	Not determined.
Danger of explosion:	Not determined.
Change in condition	
· Evaporation rate	Not determined.

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

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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: Sensitization possible through skin contact.
- · Additional toxicological information:
- · Interactive effects No interactive effects between components are known.
- · 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.
- Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · **Bioaccumulative potential** No further relevant information available.
- · Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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.

14 Transport information

- · UN-Number
- · DOT, IMDG, IATA

UN1993

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UN proper shipping name DOT IMDG IATA	Flammable liquids, n.o.s. (Sabinene) FLAMMABLE LIQUID, N.O.S. (Sabinene) Flammable liquid, n.o.s. (Sabinene)
Transport hazard class(es)	
DOT	
Class	3 Flammable liquids
Label	3
Class Label	3 Flammable liquids 3
Packing group DOT, IMDG, IATA	111
Environmental hazards:	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
IMDG	
Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
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.
	Warning: Flammable liquids
Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	

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· UN "Model Regulation":

UN 1993 FLAMMABLE LIQUID, N.O.S. (SABINENE), 3, 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.
- · 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 previous version 09/02/2022
- Date of preparation 03/05/2025
- Abbreviations and acronyms:

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** Flammable liquids 3: Flammable liquids - Category 3 Acute toxicity - oral 4: Acute toxicity - Category 4 Skin irritation 2: Skin corrosion/irritation - Category 2

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(Contd. from page 9) Eye irritation 2A: Serious eye damage/eye irritation – Category 2A Sensitization - skin 1: Skin sensitisation – Category 1 Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3 Aspiration hazard 1: Aspiration hazard – Category 1 • * Data compared to the previous version altered.