

SAFETY DATA SHEET

Sym-Collidine, ACS Grade

Version 3 · issued 14 September 2026

1. IDENTIFICATION

Product Identifiers

Product Name	Sym-Collidine, ACS Grade
Other Names	Not available
Product Number(s)	11520, EMS11520
CAS Number	108-75-8

Recommended use of the chemical and restriction on use

Laboratory chemicals.

Company Details

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS02 Flame
Flammable liquids 3 H226 Flammable liquid and vapor
GHS06 Skull and crossbones
Acute toxicity - dermal 3 H311 Toxic in contact with skin.
Acute toxicity - inhalation 3 H331 Toxic if inhaled.
GHS07
Acute toxicity - oral 4 H302 Harmful if swallowed.
Skin irritation 2 H315 Causes skin irritation.
Eye irritation 2A H319 Causes serious eye irritation.
Specific target organ toxicity (single exposure) 3 H335 May cause respiratory irritation.

Label Elements

Flammable • Acute toxicity • Harmful / irritant

Signal Words	Danger
Hazard Statement(s)	Flammable liquid and vapour. Harmful if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Precautionary Statement(s)

Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Avoid breathing dust/fume/gas/mist/vapours/spray.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.

Primary route(s) of entry

inhalation and dermal absorption/contact

Human Health**Inhalation**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor.

Ingestion

Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin

(or hair) Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

Environment

In case of fire: Use CO₂, powder or water spray for extinction.

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

Store in a well-ventilated place. keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other Hazards

Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

· Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS No.	Content (w/w)	Classification
Sym-Collidine, Reagent	108-75-8	100%	

4. FIRST AID MEASURES**Ingestion**

Call for a doctor immediately.

Inhalation

Supply fresh air or oxygen; call for a doctor.

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

Skin Contact

Immediately wash with water and soap and rinse thoroughly.

Eye Contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Other 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.

Remove breathing equipment only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

5. FIREFIGHTING MEASURES**Suitable extinguishing equipment****Fire**

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

HAZCHEM

No further relevant information available.

Special protective equipment and precautions for fire fighters

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 materials for containment and clean up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

7. HANDLING AND STORAGE

Precautions for safe handling	Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols. Keep ignition sources away - Do not smoke. Protect from heat. Protect against electrostatic charges. Keep respiratory protective device available.
Conditions for safe storage	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

Exposure Standards	
Engineering controls	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.
Personal protective equipment	
Eye and face protection	Tightly sealed goggles.
Skin protection	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.
Body protection	Wear protective clothing.
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.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information	
Appearance	Colourless liquid
Odour	Characteristic
pH	Not determined
Vapour Pressure	Not determined
Density	Not determined
Boiling Point	172°C

Melting Point	-43°C
Solubility	Not determined.
Specific Gravity of Density	Not available.
Flash Point	55°C
Flammable (Explosive) Limits	Not determined.
Ignition Temperature	Not determined.
Formula	C ₈ H ₁₁ N Molecular weight: 121.18 g/mol

10. STABILITY AND REACTIVITY

Reactivity	No further relevant information available.
Chemical stability	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.

11. TOXICOLOGICAL INFORMATION

Acute effects	Oral LD50 400mg/kg (rat)
Eye contact	Irritating effect.
Skin contact	Irritant to skin and mucous membranes.
Ingestion	Not available.
Inhalation	No sensitising effects known.
Chronic effects	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.
Toxicity and irritation	Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No further relevant information available.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
Other adverse effects	Water hazard class 2: 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.

13. DISPOSAL CONSIDERATIONS

General information

Must not be disposed together with household garbage. Do not allow to reach sewage system.
 Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

ADG label required

Class 3 Flammable liquid • Class 6.1 Toxic

HAZCHEM	No further relevant information available.
UN Number	UN1992
Proper shipping name	DOT Flammable liquids, toxic, n.o.s. (Sym-Collidine, Reagent) ADR 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (Sym-Collidine, Reagent) IMDG, IATA FLAMMABLE LIQUID, TOXIC, N.O.S. (Sym-Collidine, Reagent)
Transport hazard class	Class 3 Flammable liquids.
Packing group	DOT, ADR, IMDG, IATA III
Environmental hazard	Not applicable.

Special precautions for users	Warning: Flammable liquids. Hazard identification number (Kemler code): 30 EMS Number: F-E,S-D Stowage Category: A UN "Model Regulation": UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (SYMCOLLIDINE, REAGENT), 3 (6.1), III
Additional information	Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30mL Maximum net quantity per outer packaging: 1000mL Transport category: 3 Tunnel restriction code: D/E

15. REGULATORY INFORMATION

Poisons Schedule Number	Substance is not listed.
Other Information	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): ACTIVE · 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. A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

SDS preparation date	14 September 2026
Comments	Abbreviations and acronyms: ADR: Accord relatif au transport international 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 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 Acute toxicity - dermal 3: Acute toxicity – Category 3 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) – Category 3

References

Electrom Microscopy Science SDS "Sym-Collidine, Reagent." 01/12/2022
https://www.emsdiasum.com/docs/technical/msds/11520.pdf?srsId=AfmBOooP3er_yzMmmt0JAPE_L3wDZLzaoSf5wiUkg8YHO8IRH-e-InR6&utm_source=chatgpt.com

This Safety Data Sheet (SDS) has been prepared in compliance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice February 2016. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. The information published in this SDS has been compiled from the publications listed in Section 16: to the best of our ability and knowledge these publications are considered accurate. We reserve the right to revise Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.

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