

SAFETY DATA SHEET

Collodion 2% in Amyl Acetate

Version 3 · issued 24 September 2026

1. IDENTIFICATION**Product Identifiers**

Product Name	Collodion 2% in Amyl Acetate
Other Names	Collodion 2% in Amyl Acetate - non filtered, Collodion (Parlodion) 2% in Amyl Acetate.
Product Number(s)	12620-00, 12620-30, 12620-34, EMS12620-00, EMS12620-30, EMS12620-34
CAS Number	628-63-7

Recommended use of the chemical and restriction on use

Laboratory chemicals. Making thin collodion/nitrocellulose films, including negative replicas and support films for microscopy.
It is also used in histology/hematology applications.

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2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

GHS02 Flame
Flam. Liq. 3 H226 Flammable liquid and vapour.

Label Elements**Flammable****Signal Words**

Warning

Hazard Statement(s)

Flammable liquid and vapour.

Precautionary Statement(s)

Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.

Primary route(s) of entry

inhalation of vapour and skin/eye contact are the relevant exposure routes because the product contains volatile amyl acetate.

Human Health**Inhalation**

Vapour may irritate the respiratory tract and may cause headache, dizziness, drowsiness, nausea, or other central nervous system effects at sufficient concentrations.

Ingestion

Harmful if swallowed. May cause irritation of the gastrointestinal tract, with symptoms such as nausea, vomiting, or abdominal discomfort.
Do not induce vomiting; seek medical attention/poison-centre advice if swallowed.

Eyes

Causes eye irritation.

Skin

(or hair) Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

Environment

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

Store in a well-ventilated place. Keep cool.

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS No.	Content (w/w)	Classification
AMYL ACETATE, REAGENT	628-63-7		

4. FIRST AID MEASURES

Ingestion	If symptoms persist consult doctor.
Inhalation	Supply fresh air; consult doctor in case of complaints.
Skin Contact	Generally the product does not irritate the skin.
Eye Contact	Rinse opened eye for several minutes under running water.
Other Information	No further relevant information available.

5. FIREFIGHTING MEASURES**Suitable extinguishing equipment**

Fire CO₂, sand, extinguishing powder. Do not use water.

HAZCHEM For safety reasons unsuitable extinguishing agents: Water with full jet.

Special protective equipment and precautions for fire fighters

No special measures required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away. Protective Action Criteria for Chemicals · PAC-1: 100 ppm · PAC-2: 670 ppm · PAC-3: 4000* ppm
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). Do not flush with water or aqueous agents.

7. HANDLING AND STORAGE

Precautions for safe handling	No special precautions are necessary if used correctly. Keep ignition sources away - Do not smoke. Protect from heat. Protect against electrostatic charges.
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. Protect from heat and direct sunlight. · Specific end use(s) No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Standards**

Material	TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³
AMYL ACETATE, REAGENT	50ppm	270mg/m ³	100ppm	541mg/m ³

Engineering controls Wash hands before breaks and at the end of work.

Personal protective equipment

Eye and face protection Tightly sealed goggles.

Skin protection

Wear protective gloves. The glove material has to be impermeable and resistant to the product/the substance/the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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

Not required

9. PHYSICAL AND CHEMICAL PROPERTIES**General information****Appearance**

Clear liquid

Odour

Fruit-like

pH

Not determined

Vapour Pressure

at 20 °C (68 °F): 5.3 hPa (4 mm Hg)

Density

at 20 °C (68 °F): 4.5 g/cm³ (37.5525 lbs/gal)

Boiling Point

149.25°C (300.7 °F)

Melting Point

-70.8°C (-95.4 °F)

Solubility

1.8g/l

Specific Gravity of Density

Not available.

Flash Point

16 °C (60.8 °F)

Flammable (Explosive) Limits

Lower: 1 Vol%

Upper: 7.5 Vol%

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Ignition Temperature

360 °C (680 °F)

Formula

Not available.

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**

628-63-7 AMYL ACETATE, REAGENT

Oral LD50 6500 mg/kg (rat)

Eye contact

No irritating effect.

Skin contact

No irritating effect.

Ingestion

Not available.

Inhalation

No sensitising effects known.

Chronic effects

Carcinogenic categories

· IARC (International Agency for Research on Cancer): None of the ingredients is listed.

· NTP (National Toxicology Program): None of the ingredients is listed.

OSHA-Ca (Occupational Safety Health Administration): None of the ingredients is listed.

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 1: 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**General information**

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

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION**ADG label required****Class 3 Flammable liquid****HAZCHEM**

For safety reasons unsuitable extinguishing agents: Water with full jet.

UN Number

UN1104

Proper shipping name

DOT: RQ Amyl acetates
ADR: 1104 AMYL ACETATES
IMDG, IATA: AMYL ACETATES

Transport hazard class

Class 3 Flammable liquids

Packing group

III

Environmental hazard

Not applicable.

Special precautions for users

Warning: Flammable liquids.
Hazard identification number (Kemler code): 30
EMS Number: F-E
Stowage Category: A

Additional information

Transport/Additional information:
DOT
Quantity limitations: On passenger aircraft/rail: 60 L
On cargo aircraft only: 220 L
Hazardous substance: 5000 lbs, 2270 kg
ADR
Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 mL
Maximum net quantity per outer packaging: 1000 mL
IMDG
Limited quantities (LQ): 5L
Excepted quantities (EQ): Code: E1
Maximum net quantity per inner packaging: 30 mL
Maximum net quantity per outer packaging: 1000 mL

15. REGULATORY INFORMATION

Poisons Schedule Number	None of the ingredients is listed.
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Other Information

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): All components have the value ACTIVE.
 - Hazardous Air Pollutants: 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): None of the ingredients is listed.
 - NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients is listed.
- A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION**SDS preparation date**

24 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)
 VOC: Volatile Organic Compounds (USA, EU)
 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

References

EMS SDS Collodion (Parlodion) 2% in Amyl Acetate. 24/01/2023
<https://www.emsdiasum.com/docs/technical/msds/12620-00.pdf>

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.

... End of SDS ...