

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

Printing date 15.11.2023

Version number 2 (replaces version 1)

Revision: 15.11.2023

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1 Product identifier

Product name: **Anionic / Polyamine Solvent P1/M**

Chemical Identification: chloroform / trichloromethane

Catalog number: 56Z703498, 56L7034, 56L703430, 56L703450, 56U703430, 56U703450, SDT012

CAS No.:  
67-66-3

##### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the preparation: Reagent for water analysis

##### 1.3 Details of the supplier of the safety data sheet

##### Supplier:

Tintometer GmbH  
Schleefstraße 8-12  
44287 Dortmund  
Made in Germany  
www.lovibond.com

phone: +49 (0)231 94510-0  
e-mail: sales@lovibond.com

The Tintometer Limited  
Lovibond® House  
Sun Rise Way  
Amesbury  
Wiltshire SP4 7GR  
United Kingdom

phone : +44 1980 664800  
e-mail: SDS@lovibond.uk

Informing department:  
e-mail: sds@lovibond.com  
Product Safety Department

1.4 Emergency telephone number:  
+44 1235 239670  
Languages: English

#### SECTION 2: Hazards identification

##### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008



GHS06 skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 health hazard

Carc. 2 H351 Suspected of causing cancer.

Repr. 2 H361d Suspected of damaging the unborn child.

STOT RE 1 H372 Causes damage to the kidneys and the liver through prolonged or repeated exposure.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

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Eye Irrit. 2 H319 Causes serious eye irritation.

**2.2 Label elements**
**Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the GB CLP regulation.

**Hazard pictograms**


GHS06 GHS08

**Signal word** Danger

**Hazard-determining components of labelling:**

trichloromethane

**Hazard statements**

H302 Harmful if swallowed.

H331 Toxic if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H361d Suspected of damaging the unborn child.

H372 Causes damage to the kidneys and the liver through prolonged or repeated exposure.

**Precautionary statements**

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection.

P201 Obtain special instructions before use.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of water.

P405 Store locked up.

**Additional information:**

Restricted to professional users.

**2.3 Other hazards**

Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.

Vapours have anaesthetic effect.

CAS 67-66-3: Danger by skin resorption.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

**Results of PBT and vPvB assessment**

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

**Determination of endocrine-disrupting properties**

The product does not contain substances with endocrine disrupting properties.

### SECTION 3: Composition/information on ingredients

**3.1 Substances**
**CAS No. Designation:**

CAS: 67-66-3 trichloromethane

**Identification number(s):**
**EC No:** 200-663-8

**Index No:** 602-006-00-4

**Acute toxicity estimate (ATE) values** LC50/4h inhalative: 3 mg/l

**Impurities and stabilising additives:** CAS 513-35-9:  $\geq 0.001\%$  -  $\leq 0.015\%$ 

### SECTION 4: First aid measures

**4.1 Description of first aid measures**
**General information**

Personal protection for the First Aider!

Instantly remove any clothing soiled by the product.

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- **After inhalation**  
Supply fresh air or oxygen; call for doctor.  
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After skin contact**  
Instantly rinse with water.  
Seek medical treatment.
- **After eye contact** Rinse opened eye for several minutes (at least 15 min) under running water. Then consult doctor.
- **After swallowing**  
Rinse out mouth and then drink 1-2 glasses of water.  
Do not induce vomiting; instantly call for medical help.
- **4.2 Most important symptoms and effects, both acute and delayed:**  
irritations  
Drying-out effect resulting in rough and chapped skin.  
absorption  
after inhalation:  
dizziness  
drowsiness  
headache  
fatigue  
cardiovascular disorders  
unconsciousness  
respiratory paralysis  
after swallowing:  
mucous membrane irritation  
pain  
vomiting  
narcotic conditions
- **Danger**  
Danger of impaired breathing.  
Danger of disturbed cardiac rhythm.  
Danger of pulmonary oedema.  
Condition may deteriorate with alcohol consumption.
- **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** Use fire fighting measures that suit the environment.
- **5.2 Special hazards arising from the substance or mixture**  
The product is not combustible.  
Formation of toxic gases is possible during heating or in case of fire.  
Can be released in case of fire:  
Phosgene gas  
Hydrogen chloride (HCl)  
Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>)
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained breathing apparatus.  
Wear full protective suit.
- **Additional information**  
Collect contaminated fire fighting water separately. It must not enter drains.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Ambient fire may liberate hazardous vapours.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
- **Advice for non-emergency personnel:**  
Wear protective equipment. Keep unprotected persons away.  
Avoid substance contact.  
Do not breathe vapors/spray.  
Ensure adequate ventilation  
Use breathing protection against the effects of fumes/dust/aerosol.

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**Advice for emergency responders:**

Protective equipment: see section 8  
Put on breathing apparatus.

· **6.2 Environmental precautions:** Do not allow product to reach sewage system or water bodies.

**6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.  
Absorb with liquid-binding material (sand, diatomite, universal binders).  
Dispose of contaminated material as waste according to item 13.

**6.4 Reference to other sections**

See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**
**Advice on safe handling:**

Open and handle container with care.  
Prevent formation of aerosols.  
Work only in fume cupboard.

**Hygiene measures:**

Do not inhale gases / fumes / aerosols.  
Do not get in eyes, on skin, or on clothing.  
Take off immediately all contaminated clothing.  
Store protective clothing separately.  
Wash hands during breaks and at the end of the work.  
Do not eat, drink or smoke when using this product.

**7.2 Conditions for safe storage, including any incompatibilities**
**Requirements to be met by storerooms and containers:**

Store in cool location.  
Photo-sensitive product. Store in brown-glass or stainless steel containers.  
Unsuitable material for container: plastics  
Unsuitable material for container: aluminium.

· **Information about storage in one common storage facility:** Store away from oxidising agents.

**Further information about storage conditions:**

Store in a locked cabinet or with access restricted to technical experts or their assistants.  
Protect from heat and direct sunlight.  
Store container in a well ventilated position.  
Store in the dark.  
Protect from the effects of light.  
Protect from humidity and keep away from water.

· **Recommended storage temperature:** 20°C +/- 5°C

· **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**
**Components with limit values that require monitoring at the workplace:**
**CAS: 67-66-3 trichloromethane**

WEL (Great Britain)	Long-term value: 9.9 mg/m <sup>3</sup> , 2 ppm Sk
IOELV (European Union)	Long-term value: 10 mg/m <sup>3</sup> , 2 ppm Skin

**Regulatory information**

WEL (Great Britain): EH40/2020  
IOELV (European Union): (EU) 2019/1831

**DNELs**

Derived No Effect Level (DNEL)

**CAS: 67-66-3 trichloromethane**

Dermal	DNEL	0.94 mg/kg (Worker / long-term /systemic effects)
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Inhalative	DNEL	333 mg/m <sup>3</sup> (Worker / acute / systemic effects) 2.5 mg/m <sup>3</sup> (Worker / long-term / local effects) 2.5 mg/m <sup>3</sup> (Worker / long-term / systemic effects) 0.18 mg/m <sup>3</sup> (Consumer / long-term / systemic effects)
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**Recommended monitoring procedures:**

Methods for measurement of the workplace atmosphere have to correspond to the requirements of norms DIN EN 482 and DIN EN 689.

· **Additional information:** The lists that were valid during the compilation were used as basis.

**8.2 Exposure controls**
**Engineering measures:**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See item 7.

**Individual protection measures, such as personal protective equipment**

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled.

**Eye/face protection**

Safety glasses

Use safety glasses that have been tested and approved in accordance with government standards such as EN 166.

**Hand protection**

Protective gloves.

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

**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.

Fluorocarbon rubber (Viton)

Recommended thickness of the material:  $\geq 0.7$  mm

**Penetration time of glove material**

Breakthrough time: > 480 min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Other skin protection (body protection):** Solvent resistant protective clothing

· **Breathing equipment:** Use breathing protection against the effects of fumes/dust/aerosol.

· **Recommended filter device for short term use:** Filter AX

· **Environmental exposure controls** Do not allow product to reach sewage system or water bodies.

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

- **Physical state** Fluid
- **Form:** Liquid
- **Colour:** Colourless
- **Odour:** Sweetish
- **Odour threshold:** CAS 67-66-3: 205ppm (Merck)
- **Melting point/Freezing point:** -63°C
- **Boiling point or initial boiling point and boiling range** 61°C
- **Flammability** The product is not combustible.
- **Explosive properties:** Product is not explosive.
- **Lower and upper explosion limit**
  - Lower: Not applicable.
  - Upper: Not applicable.
- **Flash point:** Not applicable.
- **Auto-ignition temperature:** Not applicable.
- **Decomposition temperature:** Not applicable.
- **pH** Mixture is non-polar/aprotic.
- **Kinematic viscosity** Not determined.
- **Solubility**
- **Water at 20°C:** 8 g/l  
Not miscible or difficult to mix
- **Organic solvents:** Miscible with many organic solvents

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· Partition coefficient n-octanol/water (log value)	1.97 log POW
· Vapour pressure at 20°C:	210 hPa
· Density and/or relative density	
· Density at 20°C:	1.48 g/cm <sup>3</sup>
· Relative density:	Not determined.
· Relative gas density	4.12
· Particle characteristics	Not applicable (liquid).
<b>· 9.2 Other information</b>	
<b>· Information with regard to physical hazard classes</b>	
· Corrosive to metals	Void
· Other safety characteristics	
· Oxidising properties:	none
<b>· Additional information</b>	
· Organic solvents:	100 %
· Molecular formula	CHCl <sub>3</sub>

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** see section 10.3
- **10.2 Chemical stability**  
Stable at ambient temperature (room temperature).  
Contains the following stabiliser:  
CAS 513-35-9: ≥ 0.001% - ≤ 0.015%  
sensitivity to light  
heat-sensitive
- **10.3 Possibility of hazardous reactions**  
Reacts with powdered metals  
Reacts with strong oxidizing agents  
Reacts with strong alkali
- **10.4 Conditions to avoid** Strong heating (decomposition)
- **10.5 Incompatible materials:**  
rubber  
various plastics  
aluminium
- **10.6 Hazardous decomposition products:**  
Phosgen  
Hydrogen chloride (HCl)  
In case of fire: see section 5.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**  
Harmful if swallowed.  
Toxic if inhaled.

<b>· LD/LC50 values that are relevant for classification:</b>		
<b>CAS: 67-66-3 trichloromethane</b>		
Oral	LD50	695 mg/kg (rat) (RTECS)
Inhalative	LC50/4h	3 mg/l (ATE) (Vapour)

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Suspected of causing cancer.
- **Reproductive toxicity** Suspected of damaging the unborn child.
- **STOT (specific target organ toxicity) -single exposure** Based on available data, the classification criteria are not met.

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- **STOT (specific target organ toxicity) -repeated exposure**  
Causes damage to the kidneys and the liver through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

**Information on likely routes of exposure**

The main routes of absorption of trichloromethane (T.) in the workplace are via the respiratory tract and the skin. Inhaled T. is rapidly absorbed into the blood.  
In kinetic studies on humans and laboratory animals, good uptake of T. via intact skin was demonstrated. In a kinetic study in volunteers, effective absorption via the digestive tract was demonstrated. In animal studies, T. was better absorbed from aqueous solutions than from oily formulations. [GESTIS]

**Additional toxicological information:**
**CAS: 67-66-3 trichloromethane**

(source: GESTIS)

**Main toxic effects:**

acute: Irritant effect on eyes and skin, disruption of the central nervous system (narcotic effect) and cardiac function;  
Functional disorders and damage to the liver and kidneys  
chronic: liver damage, also kidney damage in animal experiments and local changes in the nasal mucosa after inhalation

**Further information:**

The sweet odor of T. can be perceived from around 200 ppm (approx. 1000 mg/m<sup>3</sup>). In the case of prolonged or repeated exposure in particular, this does not suffice as a warning effect, since toxic effects occur even below this concentration.

- **11.2 Information on other hazards**
- **Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **Other information**  
This substance / mixture should be handled with particular care.  
Other dangerous properties can not be excluded.  
According to the information available to us, the chemical, physical and toxicological properties of the substances mentioned in Chapter 3 have not been thoroughly investigated.

## SECTION 12: Ecological information

**12.1 Toxicity**
**Aquatic toxicity:**
**CAS: 67-66-3 trichloromethane**

EC50	79 mg/l/48h (Daphnia magna) (IUCLID)
NOEC	120 mg/l (Daphnia magna) (11d)
LC50	18 mg/l/96h (bluegill) (IUCLID)

**12.2 Persistence and degradability**
**CAS: 67-66-3 trichloromethane**

OECD 301 C	0 % / 14 d (not biodegradable)
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**12.3 Bioaccumulative potential**

Pow = n-octanol/wasser partition coefficient  
log Pow 1-3 = Not worth-mentioning accumulating in organisms.

**CAS: 67-66-3 trichloromethane**

log Pow	1.97 (.)
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**Bioconcentration factor (BCF)**
**CAS: 67-66-3 trichloromethane**

BCF	6 (bluegill) (0,11 mg/l, 14d) (Lepomis macrochirus)
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- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**  
Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects** Avoid transfer into the environment.
- **Water hazard:**  
Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

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Danger to drinking water if even extremely small quantities leak into soil.

### SECTION 13: Disposal considerations

**13.1 Waste treatment methods**
**Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Hand over to disposers of hazardous waste.

**European waste catalogue**

14 06 02\* other halogenated solvents and solvent mixtures

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

### SECTION 14: Transport information

**14.1 UN number or ID number**
**ADR, IMDG, IATA** UN1888

**14.2 UN proper shipping name**
**ADR** 1888 CHLOROFORM  
**IMDG, IATA** CHLOROFORM

**14.3 Transport hazard class(es)**
**ADR**

**Class** 6.1 (T1) Toxic substances.  
**Label** 6.1

**IMDG, IATA**

**Class** 6.1 Toxic substances.  
**Label** 6.1

**14.4 Packing group**
**ADR, IMDG, IATA** III

**14.5 Environmental hazards:** Not applicable.

**14.6 Special precautions for user**
**Warning:** Toxic substances.  
**Kemler Number:** 60  
**EMS Number:** F-A,S-A  
**Segregation groups** (SGG10) Liquid halogenated hydrocarbons  
**Stowage Category** A  
**Stowage Code** SW2 Clear of living quarters.

**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

**Transport/Additional information:**
**ADR**
**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  
**Transport category** 2

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· <b>Tunnel restriction code</b>	E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

### \* SECTION 15: Regulatory information

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

· **Poisons Act UK**

· **Regulated explosives precursors**

Substance is not listed.

· **Regulated poisons**

Substance is not listed.

· **Reportable explosives precursors**

Substance is not listed.

· **Reportable poisons**

Substance is not listed.

· **Regulation (EU) 2019/1148 on the marketing and use of explosives precursors** not regulated

· **Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC)**

Annex I Part 1

· **Regulation (EC) No 1334/2000 setting up a Community regime for the control of exports of dual-use items and technology:**

Substance is not listed.

· **Regulation (EC) No 273/2004 on drug precursors**

Substance is not listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

Substance is not listed.

· **Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:**

Substance is not listed.

· **REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)**

Substance is not listed.

· **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**

Substance is not listed.

· **Substances of very high concern (SVHC) according to REACH, Article 57**

This product does not contain any substances of very high concern above the legal concentration limit of  $\geq 0.1\%$  (w / w).

· **Substances of very high concern (SVHC) according to UK REACH**

This product does not contain any substances of very high concern above the legal concentration limit of  $\geq 0.1\%$  (w / w).

· **Directive 2012/18/EU (SEVESO III):**

· **Named dangerous substances - ANNEX I** Substance is not listed.

· **Seveso category H2 ACUTE TOXIC**

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 32

· **Information about limitation of use:**

Employment restrictions concerning young persons must be observed (94/33/EC).

Employment restrictions concerning pregnant and lactating women must be observed (92/85/EEC).

· **National regulations**

· **VOC-value EC:** 1479.9 g/l

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- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.
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### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

- **Training hints** Provide adequate information, instruction and training for operators.
- **Abbreviations and acronyms:**
  - STOT: specific target organ toxicity
  - SE: single exposure
  - RE: repeated exposure
  - EC50: half maximal effective concentration
  - IC50: half maximal inhibitory concentration
  - NOEL or NOEC: No Observed Effect Level or Concentration
  - ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
  - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  - 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
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - DNEL: Derived No-Effect Level (UK REACH)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - SVHC: Substances of Very High Concern
  - vPvB: very Persistent and very Bioaccumulative
  - Acute Tox. 4: Acute toxicity – Category 4
  - Acute Tox. 3: Acute toxicity – Category 3
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  - Carc. 2: Carcinogenicity – Category 2
  - Repr. 2: Reproductive toxicity – Category 2
  - STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
- **Sources** Data arise from safety data sheets, reference works and literature.
- **\* Data compared to the previous version altered.**

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