Chloroform

32211-1L

Version 1.9 Revision Date 06.11.2025

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

1.1. Product identifier

Product name	:	Chloroform
SDS-number	:	000000020534
Type of product	:	Substance
Remarks	:	SDS according to Art. 31 of Regulation (EC) 1907/2006. In accordance to the Article 14 (1) of the REACh Regulation (EC) No 1907/2006, exposure estimation and risk characterisation is not required.
Chemical name	:	chloroform; trichloromethane
Index-No.	:	602-006-00-4

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

Use of the Substance/Mixture	:	Laboratory chemicals
Uses advised against	:	none

1.3. Details of the supplier of the safety data sheet

Company	:	Honeywell Specialty Chemicals Seelze GmbH Wunstorfer Straße 40 30926 Seelze Germany	Solstice Advanced Materials US, Inc. 115 Tabor Road Morris Plains, NJ 07950-2546 USA
Telephone	:	(49) 5137-999 0	
For further information, please contact:	:	SafetyDataSheet@solstice.com	

1.4. Emergency telephone number

Emergency telephone number	:	+1-703-527-3887 (ChemTrec-Transport) +1 303-739-1378 (Medical)

: Poison Control Center:
United Kingdom: (+44) 844 892 0111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Acute toxicity Category 4 - Oral
H302 Harmful if swallowed.
Acute toxicity Category 3 - Inhalation
H331 Toxic if inhaled.
Skin irritation Category 2
H315 Causes skin irritation.
Eye irritation Category 2
H319 Causes serious eye irritation.
Carcinogenicity Category 2
H351 Suspected of causing cancer.
Reproductive toxicity Category 2
H361d Suspected of damaging the unborn child.
Specific target organ toxicity - single exposure Category 3 - Central nervous system
H336 May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure Category 1
H372 Causes damage to organs through prolonged or repeated exposure if swallowed and inhaled.

2.2. Label elements

REGULATION (EC) No 1272/2008

Hazard pictograms :



Signal word : Danger

Hazard statements :

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through

			prolonged or repeated exposure if swallowed and inhaled.
Precautionary statements	:	P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
		P280	Wear protective gloves/protective clothing/eye protection/face protection.
		P284	In case of inadequate ventilation wear respiratory protection.
		P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
		P302 + P352	IF ON SKIN: Wash with plenty of water.
		P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
		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.

2.3. Other hazards

High concentration of vapours may induce unconsciousness. Repeated or prolonged exposure to the substance can produce liver damage. This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Product does not contain substances that are persistent, mobile, and toxic (PMT/vPvM) at levels of 0.1 % or higher.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical name	CAS-No. Index-No. EC-No.	Classification 1272/2008	Concentration	Remarks
chloroform; trichloromethane	67-66-3 602-006-00-4	Acute Tox. 4; H302; Oral Acute Tox. 3; H331; Inhalation	>= 90 % - <= 100 %	

	200-663-8	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Carc. 2; H351 Repr. 2; H361d STOT RE 1; H372 STOT SE 3; H336		

3.2. Mixtures
Not applicable

Occupational Exposure Limit(s), if available, are listed in Section 8.
For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice:
First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

Inhalation:
If inhaled, remove to fresh air. Keep patient warm and at rest. Call a physician.

Skin contact:
After contact with skin, wash immediately with plenty of water. Call a physician if irritation develops or persists.

Eye contact:
Protect unharmed eye. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion:
Rinse mouth with water. When swallowed, allow water to be drunk. Do NOT induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

No data available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

See Section 11 for more detailed information on health effects and symptoms. :

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Water spray
Foam
Carbon dioxide (CO2)
Dry powder

Extinguishing media which shall not be used for safety reasons:
High volume water jet

5.2. Special hazards arising from the substance or mixture

Fire may cause evolution of:
Carbon oxides
Phosgene
Hydrogen chloride gas

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Evacuate personnel to safe areas. Wear personal protective equipment. Unprotected persons must be kept away.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Do not allow run-off from fire fighting to enter drains or water courses.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material.
Pick for disposal in tightly closed containers

6.4. Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling:
Wear personal protective equipment. Use only with adequate ventilation.

Advice on protection against fire and explosion:
Normal measures for preventive fire protection.

Hygiene measures:
Keep working clothes separately. Take off all contaminated clothing immediately. Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:
Keep only in the original container, tightly closed, in a well ventilated place. Store at room temperature. (Ambient temperature: > 0 < 35°C) Protect from atmospheric moisture and water.

7.3. Specific end use(s)

no additional data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

Components	Basis / Value type	Value / Form of exposure	Exceeding Factor	Remarks
chloroform; trichloromethane	EH40 WEL TWA	9,9 mg/m3 2 ppm		
chloroform; trichloromethane	EH40 WEL SKIN_DES			Can be absorbed through the skin.
chloroform; trichloromethane	EH40 WEL			Listed
chloroform; trichloromethane	EU ELV TWA	10 mg/m3 2 ppm		Indicative
chloroform; trichloromethane	EU ELV SKIN_DES			Can be absorbed through the skin.

EH40 WEL - UK. EH40 Workplace Exposure Limits (WELs), as amended
TWA - Time weighted average
EH40 WEL - UK. EH40 Workplace Exposure Limits (WELs), as amended
SKIN_DES - Skin designation:
EH40 WEL - UK. EH40 Workplace Exposure Limits (WELs), as amended
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DNEL/ PNEC-Values

Component	End-use/impact	Exposure duration	Value	Exposure routes	Remarks
chloroform; trichloromethane	Workers / Long-term systemic effects		2,5 mg/m3	Inhalation	
chloroform; trichloromethane	Workers / Acute systemic effects		333 mg/m3	Inhalation	
chloroform; trichloromethane	Workers / Long-term local effects		2,5 mg/m3	Inhalation	

chloroform; trichloromethane	Workers / Long-term systemic effects		0,94mg/kg bw/d	Skin contact	
chloroform; trichloromethane	Consumers / Long-term systemic effects		0,18 mg/m3	Inhalation	

Component	Environmental compartment / Value	Remarks
chloroform; trichloromethane	Fresh water: 0,146 mg/l	Assessment factor: 10
chloroform; trichloromethane	Marine water: 0,015 mg/l	Assessment factor: 100
chloroform; trichloromethane	Sewage treatment plant: 0,048 mg/l	Assessment factor: 10
chloroform; trichloromethane	Fresh water sediment: 0,45 mg/kg dw	Assessment factor: 10
chloroform; trichloromethane	Marine sediment: 0,09 mg/kg dw	Assessment factor: 50
chloroform; trichloromethane	Soil: 0,56 mg/kg dw	

8.2. Exposure controls

Occupational exposure controls

Do not breathe vapours or spray mist.
The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

Engineering measures
Use with local exhaust ventilation.

Personal protective equipment
Respiratory protection:
Recommended Filter type:
In the case of vapour formation use a respirator with an approved filter.

Organic gas and low boiling vapour type
Equipment should conform to EN 14387

Hand protection:
Glove material: Viton®
Break through time: > 480 min
Glove thickness: 0,7 mm
Vitoject® 890
Gloves must be inspected prior to use.
Replace when worn.
Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy.
Due to varying conditions (e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.
Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer reccomends to use the chemical protective glove in practice not longer than 50% of the recomended permeation time.
Manufacturer´s directions for use should be observed because of great diversity of types .
Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

Eye protection:
Safety goggles

Skin and body protection:
Protective suit
Wear suitable protective equipment.

Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

(a) Physical state	:	liquid
(b) Colour	:	colourless
(c) Odour	:	sweet

(d) Melting point/freezing point	:	-63 °C
(e) Boiling point/boiling range	:	60 - 62 °C at 1.013 hPa
(g) Lower and upper explosion limit	:	Lower explosion limit Not applicable
	:	Upper explosion limit Not applicable
(h) Flash point	:	Not applicable
(i) Auto-ignition temperature	:	>650 °C
(j) Decomposition temperature	:	At normal pressure may be distilled without decomposition.
(k) pH	:	No data available
(l) Viscosity, kinematic	:	No data available
(m) Solubility(ies)	:	Water solubility: 0,8 g/l at 20 °C Solubility in other solvents: Soluble in most organic solvents
(n) Partition coefficient: n-octanol/water	:	log Pow 1,97
(o) Vapour pressure	:	210 hPa at 20 °C
(p) Density and / or relative density	:	1,48 g/cm3 at 20 °C
(q) Relative vapour density	:	No data available

(r) Particle characteristics : No data available

9.2 Other Information

Polymer characteristics : No data available

The product is not flammable.
Evaporation rate : No data available

Viscosity, dynamic : No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

At normal pressure may be distilled without decomposition.

10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Plastic materials can be attacked.
Strong oxidizing agents
Reactions with metals in powder form.
Alkali metals
Alkaline earth metals
Strong bases

10.6. Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as:
Carbon oxides
Phosgene
Hydrogen chloride gas

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

(a) Acute toxicity

Acute oral toxicity:
LD50
Species: Rat
Sex: male
Value: 908 mg/kg

LD50
Species: Rat
Sex: female
Value: 1.117 mg/kg

Acute dermal toxicity:
No data available

Acute inhalation toxicity:
No data available

Acute toxicity estimate
Value: 3,03 mg/l
Exposure time: 4 h
Method: Calculation method

Acute toxicity (other routes of administration):
No data available

(b) Skin corrosion/irritation:
Species: Rabbit
Classification: irritating
Exposure time: 24 h

(c) Serious eye damage/eye irritation:
Species: Rabbit
Classification: irritating

(d) Respiratory or skin sensitisation:
Species: Guinea pig
Method: OECD Test Guideline 406
non-sensitizing

Method: OECD 429
non-sensitizing

(e) Germ cell mutagenicity:
Test Method: Ames test
Result: negative

Test Method: In vivo micronucleus test
Method: OECD Test Guideline 474
Result: negative

Test Method: Unscheduled DNA synthesis
Method: OECD Test Guideline 486
Result: negative

(f) Carcinogenicity:
Note: Suspected of causing cancer.

(g) Reproductive toxicity:
Remarks: Suspected of damaging the unborn child.

(h) STOT-single exposure:
No data available

(i) STOT - repeated exposure:
Species: Rat
Exposure time: 28 d
NOAEL 34 mg/kg

(j) Aspiration hazard:
No data available

11.2. Information on other hazards

Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other information:
Solvent removes skin oil from the skin.
Solvent vapours have a narcotic effect if inhaled in high concentrations.
Possible risk of harm to the unborn child.
May cause cancer.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish:
LC50
Species: Oncorhynchus mykiss (rainbow trout)
Value: 18 mg/l
Exposure time: 96 h

Toxicity to aquatic plants:
ErC50
static test
Species: Algae
Value: 13,3 mg/l
Exposure time: 72 h

Toxicity to Microorganisms:
EC50
Species: Nitrosomonas sp
Value: 0,48 mg/l

Toxicity to aquatic invertebrates:
EC50
Species: Crassostrea gigas
Value: 152,5 mg/l
Exposure time: 48 h

12.2. Persistence and degradability

Biodegradability:
Result: Not readily biodegradable.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Product does not contain substances which are very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product:
Dispose according to legal requirements.

Packaging:
Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

Further information:
Provisions relating to waste:
EC Directive 2006/12/EC; 2008/98/EEC
Regulation No. 1013/2006
For personal protection see section 8.

SECTION 14: Transport information

14.1 UN number or ID number
ADR/RID:1888 IMDG:1888 IATA:1888

14.2 UN proper shipping name
ADR/RID:CHLOROFORM
IMDG:CHLOROFORM
IATA:Chloroform

14.3 Transport hazard class(es)
ADR/RID:6.1 IMDG: 6.1 IATA: 6.1

14.4 Packaging group
ADR/RID:III IMDG: III IATA: III

14.5 Environmental hazards
ADR/RID:no Marine pollutant: no

14.6 Special precautions for user
IMDG Code segregation group (SGG10) – Liquid halogenated hydrocarbons,

14.7 Maritime transport in bulk according to IMO instruments
No data available

SECTION 15: Regulatory information

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

Basis	Value	Remarks
Regulation (EC) No. 1907/2006, Annex XVII		This product contains an ingredient according to Annex XVII of the REACH Regulation1907/2006/EC.
Directive 2012/18/EC Listed in Regulation : H2: ACUTE TOXIC	**Quantity**: 50.000 kg **Quantity**: 200.000 kg	
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of ≥ 0.1 % (w/w).

Other inventory information

USA. List of Active Substances on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory, as amended
On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended
On the inventory, or in compliance with the inventory

Canada. Domestic Substances List (DSL), as amended
All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List
On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI)
On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)
On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC)
On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand
On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI)
On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Text of H-statements referred to under heading 3

chloroform; trichloromethane	:	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 organs through prolonged or repeated exposure if swallowed and inhaled.
		H336	May cause drowsiness or dizziness.
ethyl alcohol (Stabilizer)	:	H225	Highly flammable liquid and vapour.
		H319	Causes serious eye irritation.

Further information

All directives and regulations refer to amended versions.
Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations:
EC European Community
CAS Chemical Abstracts Service
DNEL Derived no effect level
PNEC Predicted no effect level
vPvB Very persistent and very biaccumulative substance
PBT Persistent, bioaccmulative und toxic substance

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.
This information should not constitute a guarantee for any specific product properties.

Chloroform

32211-1L

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