according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article number: **6340** Version: **5.0 en** Replaces version of: 2022-12-20 Version: (4)

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

1.1 Product identifier

Identification of the substance	Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized
Article number	6340
Registration number (REACH)	01-2119486657-20-xxxx
Index number in CLP Annex VI	602-006-00-4
EC number	200-663-8
CAS number	67-66-3
Alternative name(s)	Chloroform

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

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household). Food, drink and animal feedingstuffs.

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment sheet:

e-mail (competent person):

sicherheit@carlroth.de

1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Centre Beaumont Hospital	Beaumont Road	Dublin 9	+353 1 809 2166	https:// www.poisons.ie/

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article number: 6340

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.10	Acute toxicity (oral)	4	Acute Tox. 4	H302
3.1I	Acute toxicity (inhal.)	3	Acute Tox. 3	H331
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.6	Carcinogenicity	2	Carc. 2	H351
3.7	Reproductive toxicity	2	Repr. 2	H361d
3.9	Specific target organ toxicity - repeated exposure	1	STOT RE 1	H372

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Danger

Pictograms



Hazard statements

H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H331	Toxic if inhaled
H351	Suspected of causing cancer
H361d	Suspected of damaging the unborn child
H372	Causes damage to organs (liver, kidney) through prolonged or repeated expos-
	ure

Precautionary statements

Precautionary statements - prevention

P202	Do not handle until all safety precautions have been read and understood
P260	Do not breathe mist/vapours/spray

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article number: 6340

Precautionary statements - response					
P302+P352 P304+P340	IF ON SKIN: Wash with plenty of water 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				

For professional users only

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Symbol(s)



H331	Toxic if inhaled.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs (liver, kidney) through prolonged or repeated exposure.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe mist/vapours/spray.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.

2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance	Trichloromethane
Molecular formula	CHCl₃
Molar mass	119,4 ^g / _{mol}
REACH Reg. No	01-2119486657-20-xxxx
CAS No	67-66-3
EC No	200-663-8
Index No	602-006-00-4

To stabilise:

Name of substance	Identifier	Wt%
Ethanol	CAS No 64-17-5	< 2,5
	EC No 200-578-6	
	Index No 603-002-00-5	

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article number: 6340

Substance, Specific Conc. Limits, M-factors, ATE						
Specific Conc. Limits M-Factors ATE Exposure route						
-	-	908 ^{mg} / _{kg} 3 ^{mg} / _l /4h	oral inhalation: vapour			

Remarks

For full text of abbreviations: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Self-protection of the first aider.

Following inhalation

Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration.

Following skin contact

Rinse skin with water/shower. In case of skin irritation, consult a physician.

Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

Following ingestion

Rinse mouth with water (only if the person is conscious). In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

4.2 Most important symptoms and effects, both acute and delayed

Irritation, Cough, Dyspnoea, Spasms, Nausea, Vomiting, Headache, Vertigo, Dizziness, Unconsciousness, Loss of righting reflex, and ataxia

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article number: 6340

5.2 Special hazards arising from the substance or mixture

Non-combustible.

Hazardous combustion products

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO₂), Hydrogen chloride (HCl), Hydrogen halides (HX)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray. Provide adequate ventilation.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use extractor hood (laboratory). Avoid exposure. When not in use, keep containers tightly closed.

Advice on general occupational hygiene

Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

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

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Store locked up.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article number: 6340

Ventilation requirements

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted.

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Cou ntr y	Name of agent	CAS No	Identi- fier	TW A [pp m]	TWA [mg/ m³]	STE L [pp m]	STEL [mg/ m³]	Ceil ing- C [pp m]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
EU	chloroform	67-66-3	IOELV	2	10					Н	2000/39/ EC
IE	chloroform	67-66-3	OELV	2	9,8					Н	S.I. No. 619 of 2001

Notation

Ceiling-C Ceiling value is a limit value above which exposure should not occur

Absorbed through the skin

STEL

Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified) TWA

Human health values

Relevant DNELs and other threshold levels							
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time			
DNEL	2,5 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects			
DNEL	333 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects			
DNEL	2,5 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects			
DNEL	0,94 mg/kg bw/ day	human, dermal	worker (industry)	chronic - systemic effects			

Environmental values

Relevant PNECs and other threshold levels					
End- point	Threshold level	Organism	Environmental com- partment	Exposure time	
PNEC	0,146 ^{mg} / _l	aquatic organisms	freshwater	short-term (single instance)	
PNEC	0,015 ^{mg} / _l	aquatic organisms	marine water	short-term (single instance)	

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article number: 6340

Relevant PNECs and other threshold levels					
End- point	Threshold level	Organism	Environmental com- partment	Exposure time	
PNEC	0,048 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)	
PNEC	0,45 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single instance)	
PNEC	0,09 ^{mg} / _{kg}	aquatic organisms	marine sediment	short-term (single instance)	
PNEC	0,56 ^{mg} / _{kg}	terrestrial organisms	soil	short-term (single instance)	

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection.

Skin protection



hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a consider-able reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

• type of material

FKM (fluoro rubber)

material thickness

≥0,4 mm

• breakthrough times of the glove material

>480 minutes (permeation: level 6)

• other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection



according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article number: 6340

Respiratory protection necessary at: Aerosol or mist formation. Type: AX (gas filters and combined filters against low-boiling point organic compounds, colour code: Brown).

Environmental exposure controls

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
Odour	characteristic
Odour threshold	85 – 202 ppm
Melting point/freezing point	-63 °C
Boiling point or initial boiling point and boiling range	61 °C at 1.013 hPa
Flammability	non-combustible
Lower and upper explosion limit	not determined
Flash point	not determined
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	not determined
Kinematic viscosity	0,38 ^{mm²} / _s at 20 °C
Dynamic viscosity	0,56 mPa s at 20 °C
Solubility(ies)	
Water solubility	8,7 ^g / _l at 23 °C (ECHA)
Partition coefficient	
Partition coefficient n-octanol/water (log value):	1,97 (25 °C) (Experimental data)
Soil organic carbon/water (log KOC)	1,8 – 2,6 (ECHA)
Vapour pressure	211 hPa at 20 °C
Density and/or relative density	
Density	1,48 ^g / _{cm³} at 20 °C
Relative vapour density	4,25 (air = 1)
Particle characteristics	not relevant (liquid)

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article number: 6340

Other safety parametersnoneOxidising propertiesnone9.2Other informationInformation with regard to physical hazard
classes:hazard classes acc. to GHS
(physical hazards): not relevantOther safety characteristics:There is no additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser, Acetone, Alkali metals, Alkaline earth metal, Mineral acids, Strong alkali, Metal powder, Nitro compound, Peroxides, => Explosive properties

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

different plastics, Rubber articles, Light metals

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

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

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Harmful if swallowed. Toxic if inhaled.

Acute toxicity

Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	908 ^{mg} / _{kg}	rat		ECHA

Acute toxicity of components

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Ethanol	64-17-5	oral	LD50	10.470 ^{mg} / _{kg}	rat
Ethanol	64-17-5	inhalation: va- pour	LC50	124,7 ^{mg} / _l /4h	rat

Ireland (en)

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article number: 6340

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Causes damage to organs (liver, kidney) through prolonged or repeated exposure.

Hazard category	Target organ	Exposure route
1	liver	if exposed
1	kidney	if exposed

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

• If swallowed

vomiting, nausea

• If in eyes

Causes serious eye irritation

• If inhaled

vertigo, dizziness, deficits in perception and coordination, reaction time, or sleepiness, loss of righting reflex, and ataxia, cough, headache, poisoning effect on central nervous system can cause convulsions, laboured breathing and loss of consciousness

• If on skin

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation), causes skin irritation

Other information

none

11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

11.3 Information on other hazards

There is no additional information.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article number: 6340

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)						
Endpoint	Value	Species	Source	Exposure time		
EC50	152,5 ^{mg} / _l	aquatic invertebrates	ECHA	48 h		
ErC50	13,3 ^{mg} / _l	algae	ECHA	72 h		

Aquatic toxicity (acute) of components							
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time		
Ethanol	64-17-5	LC50	15.400 ^{mg} / _l	fish	96 h		
Ethanol	64-17-5	EC50	>10.000 ^{mg} /l	aquatic invertebrates	48 h		
Ethanol	64-17-5	ErC50	22.000 ^{mg} / _l	algae	96 h		

Aquatic toxicity (chronic)

Endpoint	Value	Species	Source	Exposure time
EC50	0,48 ^{mg} / _l	microorganisms	ECHA	24 h

Aquatic toxicity (chronic) of components

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
Ethanol	64-17-5	LC50	1.806 ^{mg} / _l	aquatic invertebrates	10 d
Ethanol	64-17-5	ErC50	675 ^{mg} / _l	algae	4 d

12.2 Persistence and degradability

Theoretical Oxygen Demand: 0,134 ^{mg}/_{mg} Theoretical Carbon Dioxide: 0,3686 ^{mg}/_{mg}

Biodegradation

Not readily biodegradable.

Process of degradability				
Process	Degradation rate	Time		
biotic/abiotic	0 %	14 d		

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article number: 6340

Degradability of components							
Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source	
Ethanol	64-17-5	biotic/abiotic	94 %	d			
Ethanol	64-17-5	oxygen deple- tion	69 %	5 d		ECHA	
Ethanol	64-17-5	oxygen deple- tion	84 %	10 d		ECHA	
Ethanol	64-17-5	oxygen deple- tion	97 %	20 d		ECHA	

12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

n-octanol/water (log KOW)		1	1,97 (2	5 °C) (Experimental data)	
Bioaccumulative potentia	of componen	ts			
Name of substance	CAS No	BCF		Log KOW	BOD5/COD
Ethanol	64-17-5			-0,31	0,6211

12.4 Mobility in soil

Henry's law constant	14.084 ^{Pa m³} / _{mol}
The Organic Carbon normalised adsorption coefficient	1,8 – 2,6 (ECHA)

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article number: 6340

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Properties of waste which render it hazardous

- **HP 4** irritant skin irritation and eye damage
- HP 5 specific target organ toxicity (STOT)/aspiration toxicity
- HP 6 acute toxicity
- HP7 carcinogenic
- **HP 10** toxic for reproduction

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number or ID number

14.5	Environmental hazards	non-environmentally hazardous acc. to the dan- gerous goods regulations
	ICAO-TI	III
	IMDG-Code	III
	ADRRID	III
14.4	Packing group	
	ICAO-TI	6.1
	IMDG-Code	6.1
	ADRRID	6.1
14.3	Transport hazard class(es)	
	ICAO-TI	Chloroform
	IMDG-Code	CHLOROFORM
	ADRRID	CHLOROFORM
14.2	UN proper shipping name	
	ICAO-TI	UN 1888
	IMDG-Code	UN 1888
	ADRRID	UN 1888
17.1		

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article number: 6340

14.8	Information for each of the UN Model Regulat	ions
	Agreement concerning the International Carri information	age of Dangerous Goods by Road (ADR)Additional
	Proper shipping name	CHLOROFORM
	Particulars in the transport document	UN1888, CHLOROFORM, 6.1, III, (E)
	Classification code	T1
	Danger label(s)	6.1
	Special provisions (SP)	802(ADN)
	Excepted quantities (EQ)	E1
	Limited quantities (LQ)	5 L
	Transport category (TC)	2
	Tunnel restriction code (TRC)	E
	Hazard identification No	60
	Regulations concerning the International Carr information	iage of Dangerous Goods by Rail (RID)Additional
	Classification code	Т1
	Danger label(s)	6.1
	Special provisions (SP)	802(ADN)
	Excepted quantities (EQ)	E1
	Limited quantities (LQ)	5 L
	Transport category (TC)	2
	Hazard identification No	60
	International Maritime Dangerous Goods Code	e (IMDG) - Additional information
	Proper shipping name	CHLOROFORM
	Particulars in the shipper's declaration	UN1888, CHLOROFORM, 6.1, III
	Marine pollutant	-
	Danger label(s)	6.1
	Special provisions (SP)	-
	Excepted quantities (EQ)	E1
	Limited quantities (LQ)	5 L
	EmS	F-A, S-A

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article	number:	6340
article		

Stowage category	A
Segregation group	10 - Liquid halogenated hydrocarbons
International Civil Aviation Organization (ICAO-	IATA/DGR) - Additional information
Proper shipping name	Chloroform
Particulars in the shipper's declaration	UN1888, Chloroform, 6.1, III
Danger label(s)	6.1
Excepted quantities (EQ)	E1
Limited quantities (LQ)	2 L

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Dangerous substances with	restrictions (REACH, Annex XVII)				
Name of substance	Name acc. to inventory	CAS No	Restriction	Νο	
Trichloromethane	chloroform	67-66-3	R32-38	32	
Trichloromethane	this product meets the criteria for classification in accordance with Reg- ulation No 1272/2008/EC		R3	3	
Trichloromethane	substances in tattoo inks and perman- ent make-up		R75	75	

Legend R3

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

- tricks and jokes,

games for one or more participants, or any article intended to be used as such, even with ornamental aspects,

2. Articles not complying with paragraph 1 shall not be placed on the market. 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both. if they

can be used as fuel in decorative oil lamps for supply to the general public, and
 present an aspiration hazard and are labelled with H304.
 Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation

(CEN). 5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following require-ments are met:

(a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as

(a) famp oils, labeled with H304, intended for supply to the general public are visibly, legibly and indenby marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";
(b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';
(c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.';

^{1.} Shall not be used in:



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article number: 6340

Legend

R32-38 1. Shall not be placed on the market, or used, - as substances

- as substances,
- as constituents of other substances, or in mixtures in concentrations equal to or greater than 0,1 % by weight, where the substance or mixture is intended for supply to the general public and/or is intended for diffusive applications such as in surface cleaning and cleaning of fabrics.
2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures containing them in concentrations equal to or greater than 0,1 % by weight is visibly, legibly and indelible marked as follows: indelibly marked as follows:

- 'For use in industrial installations only'.
 By way of derogation this provision shall not apply to:
 (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC;
 (b) cosmetic products as defined by Directive 76/768/EEC.



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article number: 6340



8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article number: 6340

Legend

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or gener-ate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclus-ively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Device on the same device or an accessory to a medical device of the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

Not listed.

Seveso Directive

2012/	18/EU (Seveso III)			
Νο	Dangerous substance/hazard categories	Qualifying quantity plication of lower quire	and upper-tier re-	Notes
H2	acute toxic (cat. 2 + cat. 3, inhal.)	50	200	41)

Notation

41)

- Category 2, all exposure routes - category 3, inhalation exposure route

Deco-Paint Directive

VOC content	100 %
VOC content	1.480 ^g / _l

Industrial Emissions Directive (IED)

VOC content	100 %
VOC content	1.480 ^g / _l

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer **Register (PRTR)**

Pollutant release and transfer register	rs (PRTR)		
Name of substance	CAS No	Remarks	Threshold for releases to air (kg/year)
Trichloromethane	67-66-3		500

Water Framework Directive (WFD)

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article number: 6340

st of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Trichloromethane	trichloromethane (chloroform)	67-66-3	b)	
Trichloromethane	trichloromethane	67-66-3	c)	
Trichloromethane	Organohalogen compounds and substances which may form such compounds in the aquatic envir- onment		a)	
Trichloromethane	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		a)	

Legend

a) b) c)

Indicative list of the main pollutants List of priority substances in the field of water policy Environmental Quality Standards for Priority Substances and certain other pollutants

Regulation on the marketing and use of explosives precursors

not listed

Regulation on drug precursors

not listed

Regulation on substances that deplete the ozone layer (ODS)

not listed

Regulation concerning the export and import of hazardous chemicals (PIC)

chemicals subject to the international prior informed consent (PIC) procedure (the 'PIC procedure').

Name of substance	Name acc. to inventory	CAS No	Wt%	Category / subcat- egory	Use limita- tion
Trichloromethane	chloroform	67-66-3	100	i(2)	b

Legend b i(2)

Use limitation: ban (for the sub-category or sub-categories concerned) according to Union legislation Sub-category: i(2) - industrial chemical for public use

Regulation on persistent organic pollutants (POP)

not listed

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article number: 6340

National inventories

Country	Inventory	Status
AU	AIIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TR	CICR	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

Legend

Legena	
AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
KECI	Korea Existing Chemicals Inventory
NCI	National Chemical Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

15.2 Chemical safety assessment

According to REACH, Article 14 (1) a chemical safety assessment has been carried out for this substance or components of this mixture when the substance has been registered in quantities of 10 tonnes or more per year per registrant.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.2		Hazard statements: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article number: 6340

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
15.1	VOC content: 100 % 1.480 ^g / _l	VOC content: 100 %	yes
15.1		VOC content: 1.480 ^g / _l	yes
15.1		National inventories: change in the listing (table)	yes
15.2	Chemical Safety Assessment: No Chemical Safety Assessment has been car- ried out for this substance.	Chemical safety assessment: According to REACH, Article 14 (1) a chemical safety assessment has been carried out for this substance or components of this mixture when the substance has been registered in quantities of 10 tonnes or more per year per registrant.	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in imple- mentation of Council Directive 98/24/EC
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	= EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
ΙΑΤΑ	International Air Transport Association

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article number: 6340

Abbr.	Descriptions of used abbreviations
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
S.I. No. 619 of 2001	Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001
STEL	Short-term exposure limit
SVHC	Substance of Very High Concern
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Trichloromethane ≥99 %, DAB, BP, extra pure, stabilized

article number: 6340

Code	Text
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs (liver, kidney) through prolonged or repeated exposure.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.