

according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended

Creation Date 20-Jan-2010

Revision Date 02-Jul-2024

Revision Number 6

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THECOMPANY/UNDERTAKING

1.1. Product identifier

Product Description:	Chloroform, stabilized
Cat No. :	L13200
Synonyms	Formyl trichloride; Methane trichloride; Methenyl trichloride
Index No	602-006-00-4
CAS No	67-66-3
EC No	200-663-8
Molecular Formula	C H Cl3
REACH registration number	

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

Recommended Use Uses advised against

Laboratory chemicals. All other uses

1.3. Details of the supplier of the safety data sheet

Company	Avocado Research Chemicals Ltd. (Part of Thermo Fisher Scientific) Shore Road, Heysham Lancashire, LA3 2XY, United Kingdom Office Tel: +44 (0) 1524 850506 Office Fax: +44 (0) 1524 850608
E-mail address	begel.sdsdesk@thermofisher.com
1.4. Emergency telephone number	For information US call: 001-800-227-6701 / Europe call: +32 14 57 52 11 Emergency Number US: 001-201-796-7100 / Europe: +32 14 57 52 99 CHEMTREC Tel. No. US: 001-800-424-9300 / Europe: 001-703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

GHS Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Physical hazards

Based on available data, the classification criteria are not met

Health hazards

Chloroform, stabilized

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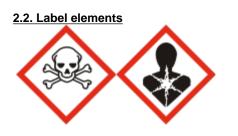
Acute oral toxicity Acute Inhalation Toxicity - Vapors Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Carcinogenicity Reproductive Toxicity Specific target organ toxicity - (single exposure) Specific target organ toxicity - (repeated exposure)

Environmental hazards

Based on available data, the classification criteria are not met

Category 4 (H302) Category 3 (H331) Category 2 (H315) Category 2 (H319) Category 2 (H351) Category 2 (H361d) Category 3 (H336) Category 1 (H372)

Full text of Hazard Statements: see section 16



Signal Word

Danger

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
- H336 May cause drowsiness or dizziness
- H372 Causes damage to organs through prolonged or repeated exposure in contact with skin

Precautionary Statements

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P302 + P352 IF ON SKIN: Wash with plenty of soap and 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

P311 - Call a POISON CENTER or doctor/physician

Additional EU labelling

For use in industrial installations only

2.3. Other hazards

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB) Cardiac and respiratory depression

Overexposure may cause decreased heart rate, decreased blood pressure, heart block, and cardiac failure Toxic to terrestrial vertebrates

This product does not contain any known or suspected endocrine disruptors

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Component	CAS No	EC No	Weight %	GHS Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567
Chloroform	67-66-3	200-663-8	>99	Acute Tox. 4 (H302) Acute Tox. 3 (H331) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H336) Carc. 2 (H351) Repr. 2 (H361d) STOT RE 1 (H372)
Ethyl alcohol	64-17-5	200-578-6	<1.0	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319)

Component	Specific concentration limits (SCL's)	M-Factor	Component notes
Chloroform	STOT RE 2 : C ≥ 5 %	-	-
Ethyl alcohol	Eye Irrit. 2 :: C>=50%	-	-

REACH registration number	-

Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.					
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.					
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.					
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.					
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.					
Self-Protection of the First Aider	Use personal protective equipment as required.					
4.2. Most important symptoms and	effects, both acute and delayed					
	. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing: May cause decreases in blood pressure and other cardiac effects: Symptoms may be delayed					
4.3. Indication of any immediate me	4.3. Indication of any immediate medical attention and special treatment needed					
Notes to Physician	Treat symptomatically. Signs of overdose include stupor and respiratory depression.					

Symptoms may be delayed.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

Extinguishing media which must not be used for safety reasons

No information available.

5.2. Special hazards arising from the substance or mixture

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO2), Phosgene, Hydrogen chloride gas.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

6.2. Environmental precautions

Should not be released into the environment.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from direct sunlight. Store under an inert

atmosphere. Protect from moisture.

Technical Rules for Hazardous Substances (TRGS) 510Class 6.1DStorage Class (LGK) (Germany)Class 6.1D

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

List source(s): **EU** - Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC **UK** - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020. **IRE** - 2021 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority

Component	The United Kingdom	European Union	Ireland
Chloroform	TWA: 2 ppm	TWA: 2 ppm 8 hr	TWA: 2 ppm 8 hr.
	TWA: 9.9 mg/m ³	TWA: 10 mg/m ³ 8 hr	TWA: 9.8 mg/m ³ 8 hr.
	STEL: 6 ppm	Possibility of significant	STEL: 6 ppm 15 min
	STEL: 29.7 mg/m ³	uptake through the skin	STEL: 29.4 mg/m ³ 15 min
			Skin
Ethyl alcohol	TWA: 1000 ppm TWA; 1920		STEL: 1000 ppm 15 min
	mg/m³ TWA		
	WEL - STEL: 3000 ppm		
	STEL; 5760 mg/m ³ STEL		

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

Component	Acute effects local	Acute effects	Chronic effects local	Chronic effects
	(Oral)	systemic (Oral)	(Oral)	systemic (Oral)
Ethyl alcohol 64-17-5 (<1.0)		DNEL = 87 mg/kg bw/d		

Component	Acute effects local (Dermal)	Acute effects systemic (Dermal)	Chronic effects local (Dermal)	Chronic effects systemic (Dermal)
Chloroform 67-66-3 (>99)				DNEL = 0.94mg/kg bw/day
Ethyl alcohol 64-17-5(<1.0)				DNEL = 343mg/kg bw/day

Component	Acute effects local (Inhalation)	Acute effects systemic (Inhalation)	Chronic effects local (Inhalation)	Chronic effects systemic (Inhalation)
Chloroform 67-66-3 (>99)		DNEL = 333mg/m ³	DNEL = 2.5mg/m ³	DNEL = 2.5mg/m ³
Ethyl alcohol 64-17-5 (<1.0)	DNEL = 1900mg/m ³			DNEL = 950mg/m ³

Predicted No Effect Concentration (PNEC)

See values below.

Component	Fresh water	Fresh water	Water Intermittent	Microorganisms in	Soil (Agriculture)
		sediment		sewage treatment	
Chloroform	PNEC = 0.146mg/L	PNEC = 0.45mg/kg	PNEC = 0.133mg/L	PNEC = 0.048mg/L	PNEC = 0.56mg/kg
67-66-3 (>99)		sediment dw			soil dw

	Component	Marine water	Marine water sediment	Marine water intermittent	Food chain	Air
ſ	Chloroform	PNEC = 0.015mg/L	PNEC = 0.09mg/kg			
	67-66-3 (>99)		sediment dw			

8.2. Exposure controls

Engineering Measures

Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection		(European standard	I - EN 166)	
Hand Protection	Protectiv	ve gloves		
Glove material Viton (R)	Breakthrough time > 480 minutes	Glove thickness 0.30 mm	EU standard Level 6 EN 374	Glove comments As tested under EN374-3 Determination of Resistance to Permeation by Chemicals
Neoprene Butyl rubber	< 25 minutes < 15 minutes	0.45 mm 0.35 mm		
Butyl rubber		0.35 mm		

Skin and body protection Long sleeved clothing.

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly
Large scale/emergency use	Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced Recommended Filter type: low boiling organic solvent Type AX Brown conforming to EN371
Small scale/Laboratory use	Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Recommended half mask:- Valve filtering: EN405; or; Half mask: EN140; plus filter, EN 141 When RPE is used a face piece Fit Test should be conducted
Environmental exposure controls	Prevent product from entering drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State	Liquid	
Appearance Odor Odor Threshold Melting Point/Range Softening Point Boiling Point/Range Flammability (liquid) Flammability (solid,gas) Explosion Limits	Colorless aromatic Slight sweet No data available -63 °C / -81.4 °F No data available 61 °C / 141.8 142.7 °F No data available Not applicable No data available	Liquid
Flash Point Autoignition Temperature Decomposition Temperature pH Viscosity Water Solubility Solubility in other solvents Partition Coefficient (n-octanol/wate Component	No information available No data available No data available No information available 0.56 mPa.s @ 20 °C 8 g/L (20°C) Miscible; organic solvents er) log Pow	Method - No information available
Chloroform	2	
Ethyl alcohol Vapor Pressure Density / Specific Gravity	-0.32 213 mbar @ 20 °C 1.480	
Bulk Density	Not applicable 4.12 (Air = 1.0)	Liquid (Air = 1.0)
Vapor Density Particle characteristics	Not applicable (liquid)	(All = 1.0)
9.2. Other information		
Molecular Formula		

Molecular FormulaC H Cl3Molecular Weight119.38Evaporation Rate11.6 (Butyl Acetate = 1.0)

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity	None known, based on information available
10.2. Chemical stability	Stable under normal conditions. UNSTABLE (REACTIVE) UPON DEPLETION OF INHIBITOR. Light sensitive.
10.3. Possibility of hazardous reacti	ons
Hazardous Polymerization Hazardous Reactions	Hazardous polymerization does not occur. None under normal processing.
10.4. Conditions to avoid	Incompatible products. Heat, flames and sparks. Excess heat. Exposure to light. Protect from moisture.
10.5. Incompatible materials	

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Strong oxidizing agents. Alkali metals. Aluminium. Acetone.

10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO₂). Phosgene. Hydrogen chloride gas.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Product Information

(a) acute toxicity;			
Oral	Category 4		
Dermal	Based on available data, the classification criteria are not met		
Inhalation	Category 3		

	Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ī	Chloroform	LD50 = 908 mg/kg (rat)	LD50 > 20 g/kg (Rabbit)	LC50 = 10.5 mg/L (Rat) 4 h
		LD50 = 695 mg/kg (Rat)		
		LD50 = 450 mg/kg (Rat)		
	Ethyl alcohol	LD50 = 10470 mg/kg	-	LC50 = 117-125 mg/l (4h)
		OECD 401 (Rat)		OECD 403 (rat)
		3450 mg/kg (Mouse)		20000 ppm/10H (rat)

(b) skin corrosion/irritation; Category 2

(c) serious eye damage/irritation; Category 2

(d) respiratory or skin sensitization;

RespiratoryNo data availableSkinNo data available

Component	Test method	Test species	Study result
Ethyl alcohol	Mouse Ear Swelling Test (MEST)	mouse	non-sensitising
64-17-5(<1.0)			
		mouse	non-sensitising
	OECD Test Guideline 429		-
	Local Lymph Node Assay		

(e) germ cell mutagenicity;

No data available

Component	Test method	Test species	Study result
Ethyl alcohol	AMES test	in vitro	negative
64-17-5 (<1.0)	OECD Test Guideline 471	Bacteria	-
	Gene cell mutation		
	OECD Test Guideline 476	in vitro	negative
		Mammalian	-

(f) carcinogenicity;

Category 2

The table below indicates whether each agency has listed any ingredient as a carcinogen Limited evidence of a carcinogenic effect Ethanol has been shown to be carcinogenic in long-term studies only when consumed and abused as an alcoholic beverage.

Component	EU	UK	Germany	IARC
Chloroform				Group 2B

(g) reproductive toxicity;	Category 2			
Component	Test method	Test species / Duration	Study result	
Ethyl alcohol 64-17-5 (<1.0)	OECD Test Guideline 416	Oral / mouse 2 Generation	NOAEL = 13.8 g/kg/day	
	OECD Test Guideline 414	Inhalation / Rat	NOAEC = 16000 ppm	
Reproductive Effects	SUSPECT REPRODUCTIVE H UNBORN CHILD (CAUSE BIR		IAL WHICH MAY INJURE	
(h) STOT-single exposure;	Category 3			
Results / Target organs	Central nervous system (CNS).			
(i) STOT-repeated exposure;	Category 1			
Study result	LOAEL = 15 mg/kg bw/day NOAEC = 25 mg/m ³			
Target Organs	Kidney, Liver, Nasal Cavities.			
(j) aspiration hazard;	No data available			
Other Adverse Effects	Tumorigenic effects have been reported in experimental animals. See actual entry in RTECS for complete information			
Symptoms / effects,both acute and delayed	nd Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness cessation of breathing. May cause decreases in blood pressure and other cardiac effects. Symptoms may be delayed.			
11.2. Information on other hazards				

Endocrine Disrupting Properties

Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity Ecotoxicity effects

Do not empty into drains. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Fish	Water Flea	Freshwater Algae
Chloroform	LC50: = 300 mg/L, 96h static (Poecilia reticulata) LC50: = 18 mg/L, 96h flow-through (Lepomis macrochirus) LC50: = 18 mg/L, 96h flow-through (Oncorhynchus mykiss) LC50: = 71 mg/L, 96h flow-through (Pimephales promelas)	EC50 = 28.9 mg/L/48h	EC50 = 560 mg/L/48h
Ethyl alcohol	Fathead minnow (Pimephales promelas) LC50 = 14200 mg/l/96h	EC50 = 9268 mg/L/48h EC50 = 10800 mg/L/24h	EC50 (72h) = 275 mg/l (Chlorella vulgaris)

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Component	Microtox	M-Factor
Chloroform	Photobacterium phosphoreum: EC50 = 520 mg/L/5	
	min	
	Photobacterium phosphoreum: EC50 = 670	
	mg/L/15 min	
	Photobacterium phosphoreum: EC50 = 670	
	mg/L/30min	
Ethyl alcohol	Photobacterium phosphoreum:EC50 = 34634	
	mg/L/30 min	
	Photobacterium phosphoreum:EC50 = 35470	
	mg/L/5 min	

12.2. Persistence and degradability

12.2. Persistence and degradability	—		
Persistence	Persistence is unlikely, based on informat		
Compo		Degradability	
Ethyl al		OECD 301E = 94%	
64-17-5			
Degradation in sewage		ous to the environment or not degradable in waste	
treatment plant	water treatment plants.		
12.3. Bioaccumulative potential	Bioaccumulation is unlikely		
Component	log Pow	Bioconcentration factor (BCF)	
Chloroform	2	1.4 - 13 dimensionless	
Ethyl alcohol	-0.32	No data available	
<u>12.5. Results of PBT and vPvB</u> assessment	air Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB).		
<u>12.6. Endocrine disrupting</u> properties Endocrine Disruptor Information	This product does not contain any known or suspected endocrine disruptors		
12.7. Other adverse effects Persistent Organic Pollutant Ozone Depletion Potential	This product does not contain any known This product does not contain any known		
SE	CTION 13: DISPOSAL CONSID	ERATIONS	

13.1. Waste treatment methods

Waste from Residues/Unused Products	Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.
Contaminated Packaging	Dispose of this container to hazardous or special waste collection point.
European Waste Catalogue (EWC)	According to the European Waste Catalog, Waste Codes are not product specific, but application specific.
Other Information	Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

<u>14.1. UN number</u> <u>14.2. UN proper shipping name</u> <u>14.3. Transport hazard class(es)</u> <u>14.4. Packing group</u>	UN1888 CHLOROFORM 6.1 III
ADR	
<u>14.1. UN number</u> <u>14.2. UN proper shipping name</u> <u>14.3. Transport hazard class(es)</u> <u>14.4. Packing group</u>	UN1888 CHLOROFORM 6.1 III
IATA	
<u>14.1. UN number</u> 14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group	UN1888 CHLOROFORM 6.1 III
14.5. Environmental hazards	No hazards identified
14.6. Special precautions for user	No special precautions required.
14.7. Maritime transport in bulk according to IMO instruments	Not applicable, packaged goods

SECTION 15: REGULATORY INFORMATION

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

International Inventories

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	CAS No	EINECS	ELINCS	NLP	IECSC	TCSI	KECL	ENCS	ISHL
Chloroform	67-66-3	200-663-8	-	-	Х	Х	Х	Х	Х
Ethyl alcohol	64-17-5	200-578-6	-	-	Х	Х	KE-13217	Х	Х
Component	CAS No	TSCA	TSCA Ir notific Active-		DSL	NDSL	AICS	NZIoC	PICCS
Chloroform	67-66-3	Х	ACT	IVE	Х	-	Х	Х	Х
Ethyl alcohol	64-17-5	X	ACT	IVE	Х	-	X	Х	Х

Legend: X - Listed '-' - Not Listed

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) -	REACH (1907/2006) -	REACH Regulation (EC
-		Annex XIV - Substances	Annex XVII - Restrictions	1907/2006) article 59 -
		Subject to Authorization	on Certain Dangerous	Candidate List of

Chloroform, stabilized

			Substances	Substances of Very High Concern (SVHC)
Chloroform	67-66-3	-	Use restricted. See item	-
			32.	
			(see	
			http://eur-lex.europa.eu/Le	
			xUriServ/LexUriServ.do?ur	
			i=CELEX:32006R1907:EN:	
			NOT for restriction details)	
Ethyl alcohol	64-17-5	-	-	-

REACH links

https://echa.europa.eu/substances-restricted-under-reach

Seveso III Directive (2012/18/EC)

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements
Chloroform	67-66-3	Not applicable	Not applicable
Ethyl alcohol	64-17-5	Not applicable	Not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Component	ANNEX I - PART 1 List of chemicals subject to export notification procedure (referred to in Article 8)	ANNEX I - PART 2 List of chemicals qualifying for PIC notification (referred to in Article 11)	ANNEX I - PART 3 List of chemicals subject to the PIC procedure (referred to in Articles 13 and 14)
Chloroform 67-66-3(>99)	 b — ban (for the category or categories concerned) b — ban (for the category or categories concerned) 	-	-
	i(2) — industrial chemical for public		

https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32012R0649&gid=1604065742303.

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Dir 92/85/EC on the protection of pregnant and breastfeeding women at work

National Regulations

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

WGK Classification

See table for values

Component	Germany - Water Classification (AwSV)	Germany - TA-Luft Class
Chloroform	WGK 3	Class I : 20 mg/m ³ (Massenkonzentration)
Ethyl alcohol	WGK1	

Component	France - INRS (Tables of occupational diseases)
Chloroform	Tableaux des maladies professionnelles (TMP) - RG 12

Chloroform, stabilized

Ethyl alcohol

Tableaux des maladies professionnelles (TMP) - RG 84

Component	Switzerland - Ordinance on the Reduction of Risk from handling of hazardous substances preparation (SR 814.81)	Switzerland - Ordinance on Incentive Taxes on Volatile Organic Compounds (OVOC)	Switzerland - Ordinance of the Rotterdam Convention on the Prior Informed Consent Procedure
Chloroform 67-66-3 (>99)	Prohibited and Restricted Substances		Annex I - industrial chemical
Ethyl alcohol 64-17-5 (<1.0)		Group I	

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

- H225 Highly flammable liquid and vapor
- H302 Harmful if swallowed
- H332 Harmful if inhaled
- H315 Causes skin irritation
- H319 Causes serious eye irritation

H351 - Suspected of causing cancer

- H361d Suspected of damaging the unborn child
- H336 May cause drowsiness or dizziness
- H372 Causes damage to organs through prolonged or repeated exposure in contact with skin

Legend

CAS - Chemical Abstracts Service EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances IECSC - Chinese Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances	 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List ENCS - Japanese Existing and New Chemical Substances AICS - Australian Inventory of Chemical Substances NZIOC - New Zealand Inventory of Chemicals
WEL - Workplace Exposure Limit ACGIH - American Conference of Governmental Industrial Hygienists DNEL - Derived No Effect Level RPE - Respiratory Protective Equipment LC50 - Lethal Concentration 50% NOEC - No Observed Effect Concentration PBT - Persistent, Bioaccumulative, Toxic	 TWA - Time Weighted Average IARC - International Agency for Research on Cancer Predicted No Effect Concentration (PNEC) LD50 - Lethal Dose 50% EC50 - Effective Concentration 50% POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative
ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code OECD - Organisation for Economic Co-operation and Development BCF - Bioconcentration factor Key literature references and sources for data https://echa.europa.eu/information-on-chemicals Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, R	ICAO/IATA - International Civil Aviation Organization/International Air Transport Association MARPOL - International Convention for the Prevention of Pollution from Ships ATE - Acute Toxicity Estimate VOC - (Volatile Organic Compound)

Training Advice

Chloroform, stabilized

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Chemical incident response training.

Fire prevention and fighting, identifying hazards and risks, static electricity, explosive atmospheres posed by vapours and dusts.

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End of Safety Data Sheet