

according to 1907/2006/EC, Article 31

Printing date 28.07.2021

Revision: 28.07.2021

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

· 1.1 Product identifier

· Trade name: **Mix Analyte Method 608**

· Article number: N9331065

· 1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

· Application of the substance / the mixture Laboratory chemicals

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

PerkinElmer, Inc.
710 Bridgeport Avenue
Shelton, Connecticut 06484 USA
CustomerCareUS@perkinelmer.com
203-925-4600

PerkinElmer, Inc.
Chalfont Road Buckinghamshire
Seer Green HP9 2FX
cc.uk@perkinelmer.com
United Kingdom
P: 0800 896 046
F: 0800-89 17 14

PerkinElmer, Inc.
Llantrisant Business Park, Unit A
Llantrisant CF72 8YW
United Kingdom
cc.uk@perkinelmer.com
P: 44 1443 234005

· 1.4 Emergency telephone number:

CHEMTREC (within US) 800-424-9300

CHEMTREC (from outside US) +1 703-527-3887 (call collect)

CHEMTREC (within AU) +(61)-290372994

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

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



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS06 skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.

(Contd. on page 2)

according to 1907/2006/EC, Article 31

Printing date 28.07.2021

Revision: 28.07.2021

Trade name: Mix Analyte Method 608

(Contd. of page 1)



GHS08 health hazard

STOT SE 1 H370 Causes damage to organs.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms GHS02, GHS06, GHS08

Signal word Danger

Hazard-determining components of labelling:

methanol

Hazard statements

H225 Highly flammable liquid and vapour.

H331 Toxic if inhaled.

H370 Causes damage to organs.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 67-56-1 EINECS: 200-659-6	methanol Flam. Liq. 2, H225 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT SE 1, H370	99.9984%
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Additional Components

CAS: 50-29-3 EINECS: 200-024-3	DDT (common name not adopted by ISO) Acute Tox. 3, H301 Carc. 2, H351; STOT RE 1, H372 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.0001%
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(Contd. on page 3)

according to 1907/2006/EC, Article 31

Printing date 28.07.2021

Revision: 28.07.2021

Trade name: Mix Analyte Method 608

		(Contd. of page 2)
CAS: 58-89-9 EINECS: 200-401-2	γ -HCH or γ -BHC  Acute Tox. 3, H301  STOT RE 2, H373  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Acute Tox. 4, H312; Acute Tox. 4, H332 Lact., H362	0.0001%
CAS: 60-57-1 EINECS: 200-484-5	dieldrin (ISO)  Acute Tox. 3, H301; Acute Tox. 1, H310  Carc. 2, H351; STOT RE 1, H372  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.0001%
CAS: 72-20-8 EINECS: 200-775-7	endrin (ISO)  Acute Tox. 2, H300; Acute Tox. 3, H311  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.0001%
CAS: 72-54-8 EINECS: 200-783-0	TDE  Acute Tox. 3, H301  Acute Tox. 4, H312	0.0001%
CAS: 72-55-9 EINECS: 200-784-6	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene  Acute Tox. 4, H302	0.0001%
CAS: 76-44-8 EINECS: 200-962-3	heptachlor (ISO)  Acute Tox. 3, H301; Acute Tox. 3, H311  Carc. 2, H351; STOT RE 2, H373  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.0001%
CAS: 309-00-2 EINECS: 206-215-8	aldrin (ISO)  Acute Tox. 3, H301; Acute Tox. 3, H311  Carc. 2, H351; STOT RE 1, H372  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.0001%
CAS: 319-84-6 EINECS: 206-270-8	(1 α ,2 α ,3 β ,4 α ,5 β ,6 β)-1,2,3,4,5,6-hexachlorocyclohexane  Acute Tox. 3, H301	0.0001%
CAS: 319-85-7 EINECS: 206-271-3	(1 α ,2 β ,3 α ,4 β ,5 α ,6 β)-1,2,3,4,5,6-hexachlorocyclohexane  Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330	0.0001%
CAS: 319-86-8 EINECS: 206-272-9	(1 α ,2 α ,3 α ,4 β ,5 α ,6 β)-1,2,3,4,5,6-hexachlorocyclohexane  Acute Tox. 4, H302	0.0001%
CAS: 959-98-8	Endosulfan I	0.0001%
CAS: 1024-57-3 EINECS: 213-831-0	heptachlor epoxide  Acute Tox. 3, H301  Carc. 2, H351; STOT RE 2, H373  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.0001%
CAS: 1031-07-8	Endosulfan	0.0001%
CAS: 7421-93-4	ENDRIN ALDEHYDE	0.0001%
CAS: 33213-65-9	β -endosulfan	0.0001%

Additional information: For the wording of the listed hazard phrases refer to section 16.

according to 1907/2006/EC, Article 31

Printing date 28.07.2021

Revision: 28.07.2021

Trade name: Mix Analyte Method 608

(Contd. of page 3)

* **SECTION 4: First aid measures**

· **4.1 Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

Remove breathing equipment only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· **After inhalation:**

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** Do not induce vomiting; call for medical help immediately.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **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:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **5.2 Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

· **5.3 Advice for firefighters**

· **Protective equipment:** Mouth respiratory protective device.

* **SECTION 6: Accidental release measures**

· **6.1 Personal precautions, protective equipment and emergency procedures**

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Prevent seepage into sewage system, workpits and cellars.

Dilute with plenty of water.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

GB

(Contd. on page 5)

according to 1907/2006/EC, Article 31

Printing date 28.07.2021

Revision: 28.07.2021

Trade name: Mix Analyte Method 608

(Contd. of page 4)

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

- Store in cool, dry place in tightly closed receptacles.
- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- Prevent formation of aerosols.

· **Information about fire - and explosion protection:**

- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- Keep respiratory protective device available.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**

- Store in a cool place.
- Keep container tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.

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

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

- **Additional information about design of technical facilities:** No further data; see item 7.

· **Ingredients with limit values that require monitoring at the workplace:**

67-56-1 methanol

<i>WEL</i>	Short-term value: 333 mg/m ³ , 250 ppm
	Long-term value: 266 mg/m ³ , 200 ppm
<i>Sk</i>	

- **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.

· **Respiratory protection:**

- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**



Protective gloves

(Contd. on page 6)

according to 1907/2006/EC, Article 31

Printing date 28.07.2021

Revision: 28.07.2021

Trade name: Mix Analyte Method 608

(Contd. of page 5)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

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

· **Eye protection:**



Tightly sealed goggles

SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

· Form:	Liquid
· Colour:	Transparent
· Odour:	Alcohol-like
· Odour threshold:	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· Melting point/freezing point:	-98 °C
· Initial boiling point and boiling range:	64 °C

· **Flash point:** 11 °C

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:** 455 °C

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

· Lower:	5.5 Vol %
· Upper:	44 Vol %

· **Vapour pressure at 20 °C:** 128 hPa

· Density at 20 °C:	1.54 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.

(Contd. on page 7)

according to 1907/2006/EC, Article 31

Printing date 28.07.2021

Revision: 28.07.2021

Trade name: Mix Analyte Method 608

(Contd. of page 6)

· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	100.0 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

- **Acute toxicity**
Toxic if inhaled.

· **LD/LC50 values relevant for classification:**

67-56-1 methanol

Oral	LD50	5628 mg/kg (rat)
Dermal	LD50	15800 mg/kg (rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
Causes damage to organs.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

(Contd. on page 8)

according to 1907/2006/EC, Article 31

Printing date 28.07.2021

Revision: 28.07.2021

Trade name: Mix Analyte Method 608

(Contd. of page 7)

· **Aspiration hazard** Based on available data, the classification criteria are not met.


SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN3021
- **14.2 UN proper shipping name**
- **ADR** 3021 PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S. (METHANOL)
- **IMDG, IATA** PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S. (METHANOL)
- **14.3 Transport hazard class(es)**
- **ADR**
- 
- **Class** 3 (FT2) Flammable liquids.

(Contd. on page 9)



according to 1907/2006/EC, Article 31

Printing date 28.07.2021

Revision: 28.07.2021

Trade name: Mix Analyte Method 608

(Contd. of page 8)

· Label	3+6.1
· IMDG	
	
· Class	3 Flammable liquids.
· Label	3/6.1
· IATA	
	
· Class	3 Flammable liquids.
· Label	3 (6.1)
· 14.4 Packing group	
· ADR, IMDG, IATA	II
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Hazard identification number (Kemler code):	336
· EMS Number:	F-E,S-D
· Stowage Category	B
· Stowage Code	SW2 Clear of living quarters.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 3021 PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S. (METHANOL), 3 (6.1), II

GB

(Contd. on page 10)

according to 1907/2006/EC, Article 31

Printing date 28.07.2021

Revision: 28.07.2021

Trade name: Mix Analyte Method 608

(Contd. of page 9)

SECTION 15: Regulatory information

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

CAS: 67-56-1 EINECS: 200-659-6	methanol Flam. Liq. 2, H225 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT SE 1, H370	99.9984%
CAS: 50-29-3 EINECS: 200-024-3	DDT (common name not adopted by ISO) Acute Tox. 3, H301 Carc. 2, H351; STOT RE 1, H372 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.0001%
CAS: 58-89-9 EINECS: 200-401-2	γ -HCH or γ -BHC Acute Tox. 3, H301 STOT RE 2, H373 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H312; Acute Tox. 4, H332 Lact., H362	0.0001%

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category

H2 ACUTE TOXIC

P5c FLAMMABLE LIQUIDS

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

50-29-3	DDT (common name not adopted by ISO)	Annex I Part A Annex IV
58-89-9	γ -HCH or γ -BHC	Annex I Part A Annex IV
60-57-1	dieldrin (ISO)	Annex I Part A Annex IV
72-20-8	endrin (ISO)	Annex I Part A Annex IV
76-44-8	heptachlor (ISO)	Annex I Part A Annex IV
309-00-2	aldrin (ISO)	Annex I Part A Annex IV
319-84-6	(1 α ,2 α ,3 β ,4 α ,5 β ,6 β)-1,2,3,4,5,6-hexachlorocyclohexane	Annex I Part A Annex IV
319-85-7	(1 α ,2 β ,3 α ,4 β ,5 α ,6 β)-1,2,3,4,5,6-hexachlorocyclohexane	Annex I Part A Annex IV
959-98-8	Endosulfan I	Annex I Part A Annex IV
33213-65-9	β -endosulfan	Annex I Part A Annex IV

(Contd. on page 11)

according to 1907/2006/EC, Article 31

Printing date 28.07.2021

Revision: 28.07.2021

Trade name: Mix Analyte Method 608

(Contd. of page 10)

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 69

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **National regulations:**

· **Information about limitation of use:**

Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Disclaimer

The information provided in this Material Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer Life and Analytical Sciences shall not be held liable for any damage resulting from handling or from contact with the product.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H300 Fatal if swallowed.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H310 Fatal in contact with skin.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H330 Fatal if inhaled.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H351 Suspected of causing cancer.

H362 May cause harm to breast-fed children.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· **Department issuing SDS:**

Environmental, Health and Safety

PerkinElmer

Chalfont Road

Buckinghamshire

Seer Green

HP9 2FX

United Kingdom

(Contd. on page 12)

according to 1907/2006/EC, Article 31

Printing date 28.07.2021

Revision: 28.07.2021

Trade name: Mix Analyte Method 608

(Contd. of page 11)

Telephone : 0800-89 60 46

FAX : 0800-89 17 14

· **Contact:**

Within the USA: 1-(800)-762-4000

Outside the USA: 1-(203)-712-8488

· **Abbreviations and acronyms**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

· *** Data compared to the previous version altered.**