

Revision: 28.07.2021 Printing date 28.07.2021

Hazardous according to criteria of Australian Safety and Compensation Council.

# 1 Identification

- · Product identifier
- · Trade name: Mix C Method 624
- · Article number: N9331062
- · 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
- · 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

Supplier/Local:

PerkinElmer Australia

Lvl 2, Bldg 5, Brandon Office Park

530-540 Springvale Road

Glen Waverley

Melbourne

VIC 3150

Australia

1-800-033-391 ausales@perkinelmer.com

· Emergency telephone number:

CHEMTREC (within US) 800-424-9300

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

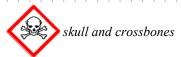
CHEMTREC (within AU) +(61)-290372994

### 2 Hazard(s) Identification

· Classification of the substance or mixture



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



Acute Tox. 3 H331 Toxic if inhaled.

(Contd. on page 2)



Printing date 28.07.2021 Revision: 28.07.2021

Trade name: Mix C Method 624

(Contd. of page 1)



Muta. 1B H340 May cause genetic defects.

Carc. 1A H350 May cause cancer.

STOT SE 1 H370 Causes damage to organs.

- · Label elements
- · GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).
- · Hazard pictograms GHS02, GHS06, GHS08
- · Signal word Danger
- · Hazard-determining components of labelling:

methanol

benzene

· Hazard statements

H225 Highly flammable liquid and vapour.

H331 Toxic if inhaled.

H340 May cause genetic defects.

H350 May cause cancer.

H370 Causes damage to organs.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. 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): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/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.

· 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.

## 3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

(Contd. on page 3)



Printing date 28.07.2021 Revision: 28.07.2021

Trade name: Mix C Method 624

	·	l. of page
	components:	
67-56-1	methanol	98.49
	♦ Flam. Liq. 2, H225	
	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331	
	<b>♦</b> STOT SE 1, H370	
71-43-2	benzene	0.2%
	Flam. Liq. 2, H225	
	Acute Tox. 1, H310  Muta 1B, H240, Care 14, H250, STOT BE 1, H272, App. Toy. 1, H204	
	Muta. 1B, H340; Carc. 1A, H350; STOT RE 1, H372; Asp. Tox. 1, H304 Skin Irrit. 2, H315; Eye Irrit. 2, H319	
75 27 4	bromodichloromethane	0.2%
/3-2/-4	L	0.2%
100 00 2	♦ Acute Tox. 3, H301	0.20
108-88-3		0.2%
	Flam. Liq. 2, H225 Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304	
	Skin Irrit. 2, H315; STOT SE 3, H336	
110 75 8	2-chloroethyl vinyl ether	0.2%
110-73-0	2-chloroethyt vinyt einer Flam. Liq. 3, H226	0.27
	Acute Tox. 3, H301	
10061-01-5	(Z)-1,3-dichloropropene	0.2%
10001 01 5	(2) 1,3 diction oproperte  Flam. Lig. 3, H226	- 0.27
	Acute Tox. 3, H301; Acute Tox. 3, H311	
	<b>♦</b> Asp. Tox. 1, H304	
	Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT	
	SE 3, H335	
Additional (	Components	
	1,1,1-trichloroethane	0.29
22 0	(a) Flam. Liq. 2, H225	
	Acute Tox. 4, H332	
100-41-4	ethylbenzene	0.29
	<b>♦</b> Flam. Lig. 2, H225	
	<b>ॐ</b> STOT RÉ 2, H373; Asp. Tox. 1, H304	
	<b>♦</b> Acute Tox. 4, H332	
10061-02-6	(E)-1,3-dichloroprop-1-ene	0.29

# 4 First Aid Measures

- · 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.

(Contd. on page 4)



Printing date 28.07.2021 Revision: 28.07.2021

Trade name: Mix C Method 624

(Contd. of page 3)

- · 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.
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

### 5 Fire Fighting Measures

- · Extinguishing media
- · Suitable extinguishing agents:

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

· Special hazards arising from the substance or mixture

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

- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

### 6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· 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.

· 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.

· 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.

# 7 Handling and Storage

- · Handling:
- 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.

(Contd. on page 5)



Printing date 28.07.2021 Revision: 28.07.2021

Trade name: Mix C Method 624

(Contd. of page 4)

- · 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 receptacle in a well ventilated area.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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

### 8 Exposure controls and personal protection

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

	· Ingredients with	limit values th	hat require	monitoring a	it the workplace:
--	--------------------	-----------------	-------------	--------------	-------------------

#### 67-56-1 methanol

WES Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Sk

### 71-43-2 benzene

WES Long-term value: 3.2 mg/m³, 1 ppm

#### 108-88-3 toluene

WES Short-term value: 574 mg/m³, 150 ppm Long-term value: 191 mg/m³, 50 ppm Sk

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

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

(Contd. on page 6)

**A**U



Printing date 28.07.2021 Revision: 28.07.2021

Trade name: Mix C Method 624

(Contd. of page 5)

· 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

	9 Physical	and Ci	hemical	Pro	perties
--	------------	--------	---------	-----	---------

· Information on basic physical and chen	nical properties
· General Information	ucu properties
· Appearance:	
Form:	Liquid
Colour:	Transparent
· Odour:	Characteristic
· 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:	$0.87  \text{g/cm}^3$
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.

(Contd. on page 7)



Printing date 28.07.2021 Revision: 28.07.2021

Trade name: Mix C Method 624

		(Contd. of page 6
· 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:	99.2 %	
Other information	No further relevant information available.	

## 10 Stability and Reactivity

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

# 11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity

· LD/LC50	· LD/LC50 values relevant for classification:			
67-56-1 m	ethanol			
Oral	LD50	5628 mg/kg (rat)		
Dermal	LD50	15800 mg/kg (rabbit)		
71-43-2 be	enzene			
Oral	LD50	4894 mg/kg (rat)		
Dermal	LD50	48 mg/kg (mouse)		
Inhalative	LC50/4 h	9980 mg/l (mouse)		
71-55-6 1,	1,1-trichlo	roethane		
Oral	LD50	10300 mg/kg (rat)		

- · Primary irritant effect:
- · Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation No irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.
- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

**Toxic** 

(Contd. on page 8)



Printing date 28.07.2021 Revision: 28.07.2021

Trade name: Mix C Method 624

(Contd. of page 7)

The product can cause inheritable damage.

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Muta. 1B, Carc. 1A

# 12 Ecological Information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

### 13 Disposal considerations

- · 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.

### 14 Transport information

- · UN-Number
- · ADG, IMDG, IATA

UN1230

- · UN proper shipping name
- $\cdot$  ADG

· IMDG, IATA

1230 METHANOL METHANOL

· Transport hazard class(es)

 $\cdot$  ADG





Class 3 (FT1) Flammable liquids.

(Contd. on page 9)



Printing date 28.07.2021 Revision: 28.07.2021

Trade name: Mix C Method 624

	(Contd. of pa
Label	3+6.1
IMDG	
Class	3 Flammable liquids.
Label	3/6.1
IATA	
Class Label	3 Flammable liquids. 3 (6.1)
	3 (0.1)
Packing group	77
ADG, IMDG, IATA	II
Environmental hazards: Marine pollutant:	No
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.
Transport in bulk according to Annex II of Marp	
and the IBC Code	Not applicable.
Transport/Additional information:	
ADG	
Limited quantities (LQ)	IL
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per unter packaging: 50 ml
Transport category	2
Tunnel restriction code	D/E
IMDG	11
Limited quantities (LQ)	IL G. 1. F2
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 1230 METHANOL, 3 (6.1), II



Printing date 28.07.2021 Revision: 28.07.2021

Trade name: Mix C Method 624

(Contd. of page 9)

Safety, health and environmental regulations/legislation specific for the substance or m	ixture
67-56-1 methanol Flam. Liq. 2, H225 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT SE 1, H370	98.49
71-43-2 benzene  Flam. Liq. 2, H225 Acute Tox. 1, H310 Muta. 1B, H340; Carc. 1A, H350; STOT RE 1, H372; Asp. Tox. 1, H304 Skin Irrit. 2, H315; Eye Irrit. 2, H319	0.29
71-55-6 1,1,1-trichloroethane Flam. Liq. 2, H225 Acute Tox. 4, H332	0.29
Australia: Priority Existing Chemicals	

- · 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
- · National regulations:
- · Additional classification according to Decree on Hazardous Materials, Annex II: Carcinogenic hazardous material group III (dangerous).
- · 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.

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

- · Waterhazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 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.

(Contd. on page 11)



Printing date 28.07.2021 Revision: 28.07.2021

Trade name: Mix C Method 624

(Contd. of page 10)

#### · Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.

H310 Fatal in contact with skin.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H340 May cause genetic defects.

H350 May cause cancer.

H361 Suspected of damaging fertility or the unborn child.

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.

### · Department issuing SDS: Environmental, Health and Safety

#### · 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

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

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 1: Acute toxicity - Category 1

Acute Tox. 4: Acute toxicity - Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Muta. 1B: Germ cell mutagenicity - Category 1B

Carc. 1A: Carcinogenicity – Category 1A

Repr. 2: Reproductive toxicity – Category 2

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

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

#### \* \* Data compared to the previous version altered.