acc. to OSHA HCS

Printing date 07/28/2021 Review date 07/28/2021

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1 Identification

· **Product identifier**

· **Trade name:** **Mix A Method 624**
· **Article number** N9331060
· **Restrictions**
This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.
· **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
· **Emergency telephone number:**
CHEMTREC (within US) 800-424-9300
CHEMTREC (from outside US) +1 703-527-3887 (call collect)
CHEMTREC (within AU) +(61)-290372994

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2 Hazard(s) identification

· **Classification of the substance or mixture**

Flame

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

Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.

Health hazard

Carc. 1B	H350	May cause cancer.
Repr. 2	H361	Suspected of damaging fertility or the unborn child.
STOT SE 1	H370	Causes damage to organs.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.

· **Label elements**
· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms** GHS02, GHS06, GHS08
· **Signal word** Danger

· **Hazard-determining components of labeling:**
methanol
1,2-dichloropropane

(Contd. on page 2)

(Contd. of page 1)

carbon tetrachloride
1,1,2,2-tetrachloroethane

· **Hazard statements**
H225 Highly flammable liquid and vapor.
H331 Toxic if inhaled.
H350 May cause cancer.
H361 Suspected of damaging fertility or the unborn child.
H370 Causes damage to organs.
H373 May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P314	Get medical advice/attention if you feel unwell.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**
· **NFPA ratings (scale 0 - 4)**

Health = 1
Fire = 3
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

*Health = *1*
Fire = 3
Reactivity = 0

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

(Contd. on page 3)

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· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

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3 Composition/information on ingredients

· **CAS No. Description**
67-56-1 Methyl Alcohol
· **EC number:** 200-659-6
· **Index number:** 603-001-00-X
· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Hazardous components:**

67-56-1	methanol Flam. Liq. 2, H225 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT SE 1, H370	97.0%
56-23-5	carbon tetrachloride Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 Carc. 2, H351; STOT RE 1, H372 Ozone 1, H420 Aquatic Chronic 3, H412	0.2%
67-66-3	trichloromethane Flam. Liq. 2, H225 Acute Tox. 2, H310; Acute Tox. 3, H331 Carc. 2, H351; Repr. 2, H361; STOT RE 1, H372 Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	0.2%
75-09-2	dichloromethane Carc. 2, H351 Acute Tox. 4, H302	0.2%
75-25-2	bromoform Acute Tox. 3, H331 Aquatic Chronic 2, H411 Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	0.2%
78-87-5	1,2-dichloropropane Flam. Liq. 2, H225 Carc. 1B, H350 Acute Tox. 4, H302; Acute Tox. 4, H332	0.2%
79-00-5	1,1,2-trichloroethane Flam. Liq. 2, H225 Carc. 2, H351 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	0.2%
79-01-6	trichloroethylene Muta. 2, H341; Carc. 1B, H350 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H336 Aquatic Chronic 3, H412	0.2%

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79-34-5	1,1,2,2-tetrachloroethane Acute Tox. 1, H310; Acute Tox. 2, H330 Carc. 2, H351 Aquatic Chronic 2, H411 Acute Tox. 4, H302	0.2%
124-48-1	dibromochloromethane Acute Tox. 3, H301	0.2%
127-18-4	tetrachloroethylene Carc. 2, H351 Aquatic Chronic 2, H411	0.2%
· **Additional Components**		
75-34-3	1,1-dichloroethane Flam. Liq. 2, H225 Acute Tox. 4, H302; Eye Irrit. 2A, H319; STOT SE 3, H335 Aquatic Chronic 3, H412	0.6%
108-90-7	chlorobenzene Flam. Liq. 3, H226 Aquatic Chronic 2, H411 Acute Tox. 4, H332; Skin Irrit. 2, H315	0.2%
156-60-5	trans-dichloroethylene Flam. Liq. 2, H225 Acute Tox. 4, H302; Acute Tox. 4, H332 Aquatic Chronic 3, H412	0.2%

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4 First-aid measures

· **Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing apparatus 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; immediately call for medical help.

· **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.

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5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO2, extinguishing 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.

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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.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
67-56-1	methanol	530 ppm
75-34-3	1,1-dichloroethane	300 ppm
56-23-5	carbon tetrachloride	1.2 ppm
67-66-3	trichloromethane	2 ppm
75-09-2	dichloromethane	200 ppm
75-25-2	bromoform	1.5 ppm
78-87-5	1,2-dichloropropane	30 ppm
79-00-5	1,1,2-trichloroethane	30 ppm
79-01-6	trichloroethylene	130 ppm
79-34-5	1,1,2,2-tetrachloroethane	3 ppm
108-90-7	chlorobenzene	10 ppm
124-48-1	dibromochloromethane	1.1 mg/m³
127-18-4	tetrachloroethylene	35 ppm
156-60-5	trans-dichloroethylene	280 ppm

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· PAC-2:		
67-56-1	methanol	2,100 ppm
75-34-3	1,1-dichloroethane	670 ppm
56-23-5	carbon tetrachloride	13 ppm
67-66-3	trichloromethane	64 ppm
75-09-2	dichloromethane	560 ppm
75-25-2	bromoform	6.8 ppm
78-87-5	1,2-dichloropropane	220 ppm
79-00-5	1,1,2-trichloroethane	180 ppm
79-01-6	trichloroethylene	450 ppm
79-34-5	1,1,2,2-tetrachloroethane	120 ppm
108-90-7	chlorobenzene	150 ppm
124-48-1	dibromochloromethane	12 mg/m³
127-18-4	tetrachloroethylene	230 ppm
156-60-5	trans-dichloroethylene	1,000 ppm

· PAC-3:		
67-56-1	methanol	7200* ppm
75-34-3	1,1-dichloroethane	4,000 ppm
56-23-5	carbon tetrachloride	340 ppm
67-66-3	trichloromethane	3,200 ppm
75-09-2	dichloromethane	6,900 ppm
75-25-2	bromoform	41 ppm
78-87-5	1,2-dichloropropane	2,000 ppm
79-00-5	1,1,2-trichloroethane	500 ppm
79-01-6	trichloroethylene	3,800 ppm
79-34-5	1,1,2,2-tetrachloroethane	150 ppm
108-90-7	chlorobenzene	400 ppm
124-48-1	dibromochloromethane	73 mg/m³
127-18-4	tetrachloroethylene	1,200 ppm
156-60-5	trans-dichloroethylene	1,700 ppm

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7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

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Keep respiratory protective device available.

· **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:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
· **Specific end use(s)** *No further relevant information available.*

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8 Exposure controls/personal protection

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

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the remaining constituent has no known exposure limits.

67-56-1 methanol	
PEL	Long-term value: 260 mg/m³, 200 ppm
REL	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
TLV	Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Skin; BEI
56-23-5 carbon tetrachloride	
PEL	Long-term value: 10 ppm Ceiling limit value: 25; 200* ppm *5-min peak in any 4 hrs
REL	Short-term value: 12.6* mg/m³, 2* ppm *60-min;See Pocket Guide App. A
TLV	Short-term value: 63 mg/m³, 10 ppm Long-term value: 31 mg/m³, 5 ppm Skin
67-66-3 trichloromethane	
PEL	Ceiling limit value: 240 mg/m³, 50 ppm
REL	Short-term value: 9.78* mg/m³, 2* ppm *60-min; See Pocket Guide App. A
TLV	Long-term value: 49 mg/m³, 10 ppm
75-09-2 dichloromethane	
PEL	Short-term value: 125 ppm Long-term value: 25 ppm see 29 CFR 1910.1052

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REL	See Pocket Guide App. A
TLV	Long-term value: 174 mg/m³, 50 ppm BEI
75-25-2 bromoform	
PEL	Long-term value: 5 mg/m³, 0.5 ppm Skin
REL	Long-term value: 5 mg/m³, 0.5 ppm Skin
TLV	Long-term value: 5.2 mg/m³, 0.5 ppm
78-87-5 1,2-dichloropropane	
PEL	Long-term value: 350 mg/m³, 75 ppm
REL	See Pocket Guide App. A
TLV	Long-term value: 46 mg/m³, 10 ppm DSEN
79-00-5 1,1,2-trichloroethane	
PEL	Long-term value: 45 mg/m³, 10 ppm Skin
REL	Long-term value: 45 mg/m³, 10 ppm Skin; See Pocket Guide Apps.A and C
TLV	Long-term value: 55 mg/m³, 10 ppm Skin
79-01-6 trichloroethylene	
PEL	Long-term value: 100 ppm Ceiling limit value: 200; 300* ppm *5-min peak in any 2 hrs
REL	See Pocket Guide Apps. A and C
TLV	Short-term value: 135 mg/m³, 25 ppm Long-term value: 54 mg/m³, 10 ppm BEI
79-34-5 1,1,2,2-tetrachloroethane	
PEL	Long-term value: 35 mg/m³, 5 ppm Skin
REL	Long-term value: 7 mg/m³, 1 ppm Skin; See Pocket Guide Apps. A and C
TLV	Long-term value: 6.9 mg/m³, 1 ppm Skin
127-18-4 tetrachloroethylene	
PEL	Long-term value: 100 ppm Ceiling limit value: 200; 300* ppm *5-min peak in any 3 hrs
REL	Minimize workplace exp. concs.;Pocket Guide App. A
TLV	Short-term value: 685 mg/m³, 100 ppm Long-term value: 170 mg/m³, 25 ppm BEI

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· **Ingredients with biological limit values:**

67-56-1 methanol	
BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
75-09-2 dichloromethane	
BEI	0.3 mg/L Medium: urine Time: end of shift Parameter: Dichloromethane (semi-quantitative)
79-01-6 trichloroethylene	
BEI	15 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Trichloroacetic acid (nonspecific) 0.5 mg/L Medium: blood Time: end of shift at end of workweek Parameter: Trichloroethanol without hydrolysis (nonspecific) - Medium: blood Time: end of shift at end of workweek Parameter: Trichloroethylene (semi-quantitative) - Medium: end-exhaled air Time: end of shift at end of workweek Parameter: Trichloroethylene (semi-quantitative)
127-18-4 tetrachloroethylene	
BEI	3 ppm Medium: end-exhaled air Time: prior to shift Parameter: Tetrachloroethylene 0.5 mg/L Medium: blood Time: prior to shift Parameter: Tetrachloroethylene

· **Additional information:** *The lists that were valid during the creation 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.

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Wash hands before breaks and at the end of work.
Store protective clothing separately.

· **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **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

· **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 or safety glasses

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	*Liquid*
Color:	*Transparent*
· **Odor:**	*Characteristic*
· **Odor threshold:**	*Not determined.*
· **pH-value:**	*Not determined.*
· **Change in condition**	
Melting point/Melting range:	*-98 °C (-144.4 °F)*
Boiling point/Boiling range:	*64 °C (147.2 °F)*
· **Flash point:**	*11 °C (51.8 °F)*
· **Flammability (solid, gaseous):**	*Not applicable.*
· **Ignition temperature:**	*455 °C (851 °F)*
· **Decomposition temperature:**	*Not determined.*

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· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· **Explosion limits:**	
Lower:	5.5 Vol %
Upper:	44 Vol %
· **Vapor pressure at 20 °C (68 °F):**	128 hPa (96 mm Hg)
· **Density at 20 °C (68 °F):**	0.8121 g/cm³ (6.77697 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **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:	98.4 %
VOC content:	98.40 %
· **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.

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11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
67-56-1 methanol		
Oral	LD50	5628 mg/kg (rat)
Dermal	LD50	15800 mg/kg (rabbit)

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56-23-5 carbon tetrachloride		
Oral	LD50	2350 mg/kg (rat)
Dermal	LD50	5070 mg/kg (rat)
79-01-6 trichloroethylene		
Oral	LD50	2402 mg/kg (mouse)
Dermal	LD50	8450 mg/kg (mouse)
79-34-5 1,1,2,2-tetrachloroethane		
Oral	LD50	800 mg/kg (rat)

· **Primary irritant effect:**
· **on the skin:** *No irritant effect.*
· **on the eye:** *No irritating effect.*
· **Sensitization:** *No sensitizing effects known.*
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations: Toxic

· **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
56-23-5	carbon tetrachloride	2B
67-66-3	trichloromethane	2B
75-09-2	dichloromethane	2A
75-25-2	bromoform	3
78-87-5	1,2-dichloropropane	1
79-00-5	1,1,2-trichloroethane	3
79-01-6	trichloroethylene	1
79-34-5	1,1,2,2-tetrachloroethane	2B
124-48-1	dibromochloromethane	3
127-18-4	tetrachloroethylene	2A

· NTP (National Toxicology Program)		
56-23-5	carbon tetrachloride	R
67-66-3	trichloromethane	R
75-09-2	dichloromethane	R
79-01-6	trichloroethylene	K
127-18-4	tetrachloroethylene	R

· OSHA-Ca (Occupational Safety & Health Administration)	
75-09-2	dichloromethane

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12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** *No further relevant information available.*
· **Persistence and degradability** *No further relevant information available.*

(Contd. on page 13)

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· **Behavior 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.*

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13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Dispose of container and materials in accordance with local, regional and national regulations.

· **Uncleaned packagings:**
· **Recommendation:** *Disposal must be made according to official regulations.*
· **Recommended cleansing agent:** *Water, if necessary with cleansing agents.*

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14 Transport information

· **UN-Number**	
· **DOT, ADR, IMDG, IATA**	*UN1230*
· **UN proper shipping name**	
· **DOT**	*Methanol*
· **ADR**	*1230 METHANOL*
· **IMDG, IATA**	*METHANOL*
· **Transport hazard class(es)**	
· **DOT**	

· **Class**	*3 Flammable liquids*
· **Label**	*3, 6.1*
· **ADR**	

· **Class**	*3 (FT1) Flammable liquids*

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· **Label**	*3+6.1*
· **IMDG**	
	
· **Class**	*3 Flammable liquids*
· **Label**	*3/6.1*
· **IATA**	
	
· **Class**	*3 Flammable liquids*
· **Label**	*3 (6.1)*
· **Packing group**	
· **DOT, ADR, 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 MARPOL73/78 and the IBC Code**	*Not applicable.*
· **Transport/Additional information:**	
· **DOT**	
· **Quantity limitations**	*On passenger aircraft/rail: 1 L* *On cargo aircraft only: 60 L*
· **ADR**	
· **Excepted quantities (EQ)**	*Code: E2* *Maximum net quantity per inner packaging: 30 ml* *Maximum net quantity per outer packaging: 500 ml*
· **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 1230 METHANOL, 3 (6.1), II*

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15 Regulatory information

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

67-56-1	methanol Flam. Liq. 2, H225 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT SE 1, H370	97.0%
75-34-3	1,1-dichloroethane Flam. Liq. 2, H225 Acute Tox. 4, H302; Eye Irrit. 2A, H319; STOT SE 3, H335 Aquatic Chronic 3, H412	0.6%
56-23-5	carbon tetrachloride Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 Carc. 2, H351; STOT RE 1, H372 Ozone 1, H420 Aquatic Chronic 3, H412	0.2%

· **Sara**

· **Section 355 (extremely hazardous substances):**

75-34-3	1,1-dichloroethane
67-66-3	trichloromethane

· **Section 313 (Specific toxic chemical listings):**

67-56-1	methanol
75-34-3	1,1-dichloroethane
56-23-5	carbon tetrachloride
67-66-3	trichloromethane
75-09-2	dichloromethane
75-25-2	bromoform
78-87-5	1,2-dichloropropane
79-00-5	1,1,2-trichloroethane
79-01-6	trichloroethylene
79-34-5	1,1,2,2-tetrachloroethane
108-90-7	chlorobenzene
127-18-4	tetrachloroethylene

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.

67-56-1	methanol	ACTIVE
75-34-3	1,1-dichloroethane	ACTIVE
56-23-5	carbon tetrachloride	ACTIVE
67-66-3	trichloromethane	ACTIVE
75-09-2	dichloromethane	ACTIVE
75-25-2	bromoform	ACTIVE

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78-87-5	1,2-dichloropropane	ACTIVE
79-00-5	1,1,2-trichloroethane	ACTIVE
79-01-6	trichloroethylene	ACTIVE
79-34-5	1,1,2,2-tetrachloroethane	ACTIVE
108-90-7	chlorobenzene	ACTIVE
124-48-1	dibromochloromethane	ACTIVE
127-18-4	tetrachloroethylene	ACTIVE
156-60-5	trans-dichloroethylene	ACTIVE

· **Hazardous Air Pollutants**

67-56-1	methanol
75-34-3	1,1-dichloroethane
56-23-5	carbon tetrachloride
67-66-3	trichloromethane
75-09-2	dichloromethane
75-25-2	bromoform
78-87-5	1,2-dichloropropane
79-00-5	1,1,2-trichloroethane
79-01-6	trichloroethylene
79-34-5	1,1,2,2-tetrachloroethane
108-90-7	chlorobenzene
127-18-4	tetrachloroethylene

· **Proposition 65**

· **Chemicals known to cause cancer:**

75-34-3	1,1-dichloroethane
56-23-5	carbon tetrachloride
67-66-3	trichloromethane
75-09-2	dichloromethane
75-25-2	bromoform
78-87-5	1,2-dichloropropane
79-00-5	1,1,2-trichloroethane
79-01-6	trichloroethylene
79-34-5	1,1,2,2-tetrachloroethane
127-18-4	tetrachloroethylene

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

79-01-6	trichloroethylene

· **Chemicals known to cause developmental toxicity:**

67-56-1	methanol
67-66-3	trichloromethane

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79-01-6	trichloroethylene

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**		
75-34-3	1,1-dichloroethane	C
56-23-5	carbon tetrachloride	L
67-66-3	trichloromethane	B2, L, NL
75-09-2	dichloromethane	L
75-25-2	bromoform	B2
79-00-5	1,1,2-trichloroethane	C
79-01-6	trichloroethylene	CaH
79-34-5	1,1,2,2-tetrachloroethane	L
108-90-7	chlorobenzene	D
124-48-1	dibromochloromethane	C
127-18-4	tetrachloroethylene	L
156-60-5	trans-dichloroethylene	II

· **TLV (Threshold Limit Value established by ACGIH)**		
75-34-3	1,1-dichloroethane	A4
56-23-5	carbon tetrachloride	A2
67-66-3	trichloromethane	A3
75-09-2	dichloromethane	A3
75-25-2	bromoform	A3
78-87-5	1,2-dichloropropane	A4
79-00-5	1,1,2-trichloroethane	A3
79-01-6	trichloroethylene	A2
79-34-5	1,1,2,2-tetrachloroethane	A3
108-90-7	chlorobenzene	A3
127-18-4	tetrachloroethylene	A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**	
56-23-5	carbon tetrachloride
67-66-3	trichloromethane
75-09-2	dichloromethane
78-87-5	1,2-dichloropropane
79-00-5	1,1,2-trichloroethane
79-01-6	trichloroethylene
79-34-5	1,1,2,2-tetrachloroethane
127-18-4	tetrachloroethylene

· **National regulations:**

· **Additional classification according to Decree on Hazardous Materials:**

Carcinogenic hazardous material group III (dangerous).

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· **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.

· **Water hazard 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 shall not be held liable for any damage resulting from handling or from contact with the product.

· **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
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
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)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 1: Acute toxicity – Category 1
Acute Tox. 2: Acute toxicity – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

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acc. to OSHA HCS

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Muta. 2: Germ cell mutagenicity – Category 2
Carc. 1B: Carcinogenicity – Category 1B
Carc. 2: Carcinogenicity – Category 2
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
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
Ozone 1: Hazardous to the ozone layer – Category 1

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