

acc. to OSHA HCS

Printing date 07/28/2021

Review date 07/28/2021

1 Identification

· Product identifier

· **Trade name:** Mix- HICAL Acids Method 8270C

· **Article number** N9331031

· 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

2 Hazard(s) identification

· Classification of the substance or mixture



Health hazard

Carc. 2 H351 Suspected of causing cancer.



Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

· Label elements

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms** GHS07, GHS08

· **Signal word** Warning

· Hazard-determining components of labeling:

dichloromethane

DNOC

2,4-dinitrophenol

pentachlorophenol

· Hazard statements

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

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· **Precautionary statements**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
- P330 Rinse mouth.
- P302+P352 If on skin: Wash with plenty of water.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P321 Specific treatment (see on this label).
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **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/information on ingredients

· **CAS No. Description**

75-09-2 Dichloromethane

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

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USA




























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· Hazardous components:		
75-09-2	dichloromethane  Carc. 2, H351  Acute Tox. 4, H302	97.2%
51-28-5	2,4-dinitrophenol  Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331  STOT RE 2, H373  Aquatic Acute 1, H400	0.2%
87-86-5	pentachlorophenol  Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330  Carc. 2, H351  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	0.2%
88-06-2	2,4,6-trichlorophenol  Carc. 2, H351  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	0.2%
88-75-5	2-nitrophenol  Acute Tox. 3, H331  Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	0.2%
95-48-7	o-cresol  Acute Tox. 3, H301; Acute Tox. 3, H311  Skin Corr. 1B, H314 Flam. Liq. 4, H227	0.2%
95-57-8	2-chlorophenol  Carc. 2, H351  Aquatic Chronic 2, H411  Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332 Flam. Liq. 4, H227	0.2%
95-95-4	2,4,5-trichlorophenol  Carc. 2, H351  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	0.2%
105-67-9	2,4-xylenol  Acute Tox. 3, H301; Acute Tox. 3, H311  Skin Corr. 1B, H314  Aquatic Chronic 2, H411	0.2%
106-44-5	p-cresol  Acute Tox. 3, H301; Acute Tox. 3, H311  Skin Corr. 1B, H314	0.2%

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108-95-2	phenol <div> <div>Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331</div> <div>Muta. 2, H341; STOT RE 2, H373</div> <div>Skin Corr. 1B, H314</div> </div>	0.2%
120-83-2	2,4-dichlorophenol <div> <div>Acute Tox. 3, H311</div> <div>Carc. 2, H351</div> <div>Skin Corr. 1B, H314</div> <div>Aquatic Chronic 2, H411</div> <div>Acute Tox. 4, H302</div> </div>	0.2%
534-52-1	DNOC <div> <div>Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330</div> <div>Muta. 2, H341</div> <div>Eye Dam. 1, H318</div> <div>Aquatic Acute 1, H400; Aquatic Chronic 1, H410</div> <div>Skin Irrit. 2, H315; Skin Sens. 1, H317</div> </div>	0.2%
Additional Components		
65-85-0	Benzoic acid <div> <div>STOT RE 1, H372</div> <div>Eye Dam. 1, H318</div> <div>Acute Tox. 4, H302; Skin Irrit. 2, H315</div> </div>	0.2%
100-02-7	4-nitrophenol <div> <div>STOT RE 2, H373</div> <div>Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332</div> </div>	0.2%

4 First-aid measures

· **Description of first aid measures**

· **General information:**

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

· **After inhalation:**

Supply fresh air and to be sure call for a 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.

· **After swallowing:** Immediately call a doctor.

· **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:** Use fire fighting measures that suit the environment.

· **Special hazards arising from the substance or mixture** No further relevant information available.

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- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.
- **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:

75-09-2	dichloromethane	200 ppm
51-28-5	2,4-dinitrophenol	0.61 mg/m ³
65-85-0	Benzoic acid	13 mg/m ³
87-86-5	pentachlorophenol	1 mg/m ³
88-06-2	2,4,6-trichlorophenol	2.5 mg/m ³
88-75-5	2-nitrophenol	2.1 mg/m ³
95-57-8	2-chlorophenol	2.3 mg/m ³
95-95-4	2,4,5-trichlorophenol	2.5 mg/m ³
100-02-7	4-nitrophenol	0.69 mg/m ³
105-67-9	2,4-xylenol	6.9 mg/m ³
108-95-2	phenol	15 ppm
120-83-2	2,4-dichlorophenol	0.2 ppm
534-52-1	DNOC	0.6 mg/m ³

· PAC-2:

75-09-2	dichloromethane	560 ppm
51-28-5	2,4-dinitrophenol	6.8 mg/m ³
65-85-0	Benzoic acid	140 mg/m ³
87-86-5	pentachlorophenol	15 mg/m ³
88-06-2	2,4,6-trichlorophenol	27 mg/m ³
88-75-5	2-nitrophenol	23 mg/m ³
95-57-8	2-chlorophenol	25 mg/m ³
95-95-4	2,4,5-trichlorophenol	27 mg/m ³
100-02-7	4-nitrophenol	7.6 mg/m ³
105-67-9	2,4-xylenol	76 mg/m ³
108-95-2	phenol	23 ppm

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120-83-2	2,4-dichlorophenol	2 ppm
534-52-1	DNOC	0.83 mg/m ³
· PAC-3:		
75-09-2	dichloromethane	6,900 ppm
51-28-5	2,4-dinitrophenol	16 mg/m ³
65-85-0	Benzoic acid	830 mg/m ³
87-86-5	pentachlorophenol	150 mg/m ³
88-06-2	2,4,6-trichlorophenol	160 mg/m ³
88-75-5	2-nitrophenol	140 mg/m ³
95-57-8	2-chlorophenol	150 mg/m ³
95-95-4	2,4,5-trichlorophenol	160 mg/m ³
100-02-7	4-nitrophenol	46 mg/m ³
105-67-9	2,4-xylenol	460 mg/m ³
108-95-2	phenol	200 ppm
120-83-2	2,4-dichlorophenol	20 ppm
534-52-1	DNOC	5 mg/m ³

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 protection against explosions and fires:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

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 other constituents have no known exposure limits.

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75-09-2 dichloromethane

PEL	Short-term value: 125 ppm Long-term value: 25 ppm see 29 CFR 1910.1052
REL	See Pocket Guide App. A
TLV	Long-term value: 174 mg/m ³ , 50 ppm BEI

87-86-5 pentachlorophenol

PEL	Long-term value: 0.5 mg/m ³ Skin
REL	Long-term value: 0.5 mg/m ³ Skin
TLV	Short-term value: 1* mg/m ³ Long-term value: 0.5* mg/m ³ Skin; BEI; *inhalable fraction+vapor

95-48-7 o-cresol

PEL	Long-term value: 22 mg/m ³ , 5 ppm Skin
REL	Long-term value: 10 mg/m ³ , 2.3 ppm
TLV	Long-term value: 20* mg/m ³ Skin; *as inhalable fraction and vapor

105-67-9 2,4-xyleneol

TLV	Long-term value: 5* mg/m ³ , 1* ppm *inh. fraction+vapor; DSEN
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106-44-5 p-cresol

PEL	Long-term value: 22 mg/m ³ , 5 ppm Skin
REL	Long-term value: 10 mg/m ³ , 2.3 ppm
TLV	Long-term value: 20* mg/m ³ Skin; *as inhalable fraction and vapor

108-95-2 phenol

PEL	Long-term value: 19 mg/m ³ , 5 ppm Skin
REL	Long-term value: 19 mg/m ³ , 5 ppm Ceiling limit value: 60* mg/m ³ , 15.6* ppm *15-min; Skin
TLV	Long-term value: 19 mg/m ³ , 5 ppm Skin; BEI

120-83-2 2,4-dichlorophenol

WEEL	Long-term value: 1 ppm Skin; Q
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534-52-1 DNOC

PEL	Long-term value: 0.2 mg/m ³ Skin
REL	Long-term value: 0.2 mg/m ³ Skin
TLV	Long-term value: 0.2* mg/m ³ *inhalable fraction + vapor; Skin

· Ingredients with biological limit values:

75-09-2 dichloromethane

BEI	0.3 mg/L Medium: urine Time: end of shift Parameter: Dichloromethane (semi-quantitative)
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87-86-5 pentachlorophenol

BEI	2 mg/g creatinine Medium: urine Time: prior to last shift of workweek Parameter: Total pentachlorophenol (background)
	5 mg/L Medium: plasma Time: end of shift Parameter: Free pentachlorophenol (background)

108-95-2 phenol

BEI	250 mg/g creatinine Medium: urine Time: end of shift Parameter: Phenol with hydrolysis (background, nonspecific)
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· 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.
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

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· **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:** Goggles recommended during refilling.

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:	-95.1 °C (-139.2 °F)
Boiling point/Boiling range:	40 °C (104 °F)

· **Flash point:** Not applicable.

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

· **Ignition temperature:** 605 °C (1121 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.
Not determined.

· **Explosion limits:**

Lower:	13 Vol %
Upper:	22 Vol %

· **Vapor pressure at 20 °C (68 °F):** 453 hPa (339.8 mm Hg)

· **Density at 20 °C (68 °F):** 1.0576 g/cm³ (8.82567 lbs/gal)

· **Relative density** Not determined.

· **Vapor density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

Water at 20 °C (68 °F): 20 g/l

· **Partition coefficient (n-octanol/water):** Not determined.

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· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	97.6 %
VOC content:	97.60 %
Solids content:	2.4 %
· 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 values that are relevant for classification:**

75-09-2 dichloromethane

Oral	LD50	1600 mg/kg (rat)
Inhalative	LC50/4 h	88 mg/l (rat)

87-86-5 pentachlorophenol

Oral	LD50	27 mg/kg (rat)
Dermal	LD50	105 mg/kg (rat)

88-06-2 2,4,6-trichlorophenol

Oral	LD50	820 mg/kg (rat)
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534-52-1 DNOC

Oral	LD50	10 mg/kg (rat)
Dermal	LD50	1000 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful

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Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

75-09-2	dichloromethane	2A
87-86-5	pentachlorophenol	1
88-06-2	2,4,6-trichlorophenol	2B
95-57-8	2-chlorophenol	2B
95-95-4	2,4,5-trichlorophenol	2B
108-95-2	phenol	3
120-83-2	2,4-dichlorophenol	2B

· **NTP (National Toxicology Program)**

75-09-2	dichloromethane	R
87-86-5	pentachlorophenol	R
88-06-2	2,4,6-trichlorophenol	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.

· **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.

Danger to drinking water if even 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:**

Dispose of container and materials in accordance with local, regional and national regulations.

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
· DOT, ADR, ADN, IMDG, IATA Void
- **UN proper shipping name**
· DOT, ADR, ADN, IMDG, IATA Void
- **Transport hazard class(es)**
· DOT, ADR, ADN, IMDG, IATA
· Class Void
- **Packing group**
· DOT, ADR, IMDG, IATA Void
- **Environmental hazards:**
· **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** Non regulated according to above specifications.
Void

15 Regulatory information

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

75-09-2	dichloromethane  Carc. 2, H351  Acute Tox. 4, H302	97.2%
51-28-5	2,4-dinitrophenol  Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331  STOT RE 2, H373  Aquatic Acute 1, H400	0.2%
65-85-0	Benzoic acid  STOT RE 1, H372  Eye Dam. 1, H318  Acute Tox. 4, H302; Skin Irrit. 2, H315	0.2%

· **Sara**

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

95-48-7	o-cresol
108-95-2	phenol
534-52-1	DNOC

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

75-09-2	dichloromethane
51-28-5	2,4-dinitrophenol
87-86-5	pentachlorophenol
88-06-2	2,4,6-trichlorophenol
88-75-5	2-nitrophenol
95-48-7	o-cresol
95-57-8	2-chlorophenol
95-95-4	2,4,5-trichlorophenol
100-02-7	4-nitrophenol
105-67-9	2,4-xylenol
106-44-5	p-cresol
108-95-2	phenol
120-83-2	2,4-dichlorophenol
534-52-1	DNOC

· **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.

75-09-2	dichloromethane	ACTIVE
51-28-5	2,4-dinitrophenol	ACTIVE
65-85-0	Benzoic acid	ACTIVE
87-86-5	pentachlorophenol	ACTIVE
88-06-2	2,4,6-trichlorophenol	ACTIVE
88-75-5	2-nitrophenol	ACTIVE
95-48-7	o-cresol	ACTIVE
95-57-8	2-chlorophenol	ACTIVE
95-95-4	2,4,5-trichlorophenol	ACTIVE
100-02-7	4-nitrophenol	ACTIVE
105-67-9	2,4-xylenol	ACTIVE
106-44-5	p-cresol	ACTIVE
108-95-2	phenol	ACTIVE
120-83-2	2,4-dichlorophenol	ACTIVE
534-52-1	DNOC	ACTIVE

· **Hazardous Air Pollutants**

75-09-2	dichloromethane
51-28-5	2,4-dinitrophenol
87-86-5	pentachlorophenol
88-06-2	2,4,6-trichlorophenol
95-48-7	o-cresol

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95-95-4	2,4,5-trichlorophenol
100-02-7	4-nitrophenol
106-44-5	p-cresol
108-95-2	phenol
534-52-1	DNOC

· **Proposition 65**

· **Chemicals known to cause cancer:**

75-09-2	dichloromethane
87-86-5	pentachlorophenol
88-06-2	2,4,6-trichlorophenol

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

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

75-09-2	dichloromethane	L
65-85-0	Benzoic acid	D
87-86-5	pentachlorophenol	L
88-06-2	2,4,6-trichlorophenol	B2
95-48-7	o-cresol	C
106-44-5	p-cresol	C
108-95-2	phenol	D, I

· **TLV (Threshold Limit Value established by ACGIH)**

75-09-2	dichloromethane	A3
87-86-5	pentachlorophenol	A3
108-95-2	phenol	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

75-09-2	dichloromethane
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· **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.

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

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

USA

(Contd. on page 15)

acc. to OSHA HCS

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Trade name: Mix- HICAL Acids Method 8270C

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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. 4: Flammable liquids – Category 4

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 Corr. 1B: Skin corrosion/irritation – Category 1B

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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

Skin Sens. 1: Skin sensitisation – Category 1

Muta. 2: Germ cell mutagenicity – Category 2

Carc. 2: Carcinogenicity – Category 2

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

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

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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