

## SAFETY DATA SHEET

Version 6.7  
Revision Date 03/29/2022  
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifiers**

Product name : EPA 8270 Calibration Mix 6

Product Number : 861304  
Brand : Supelco  
Index-No. : 602-004-00-3  
CAS-No. : 75-09-2

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

Identified uses : 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.

**1.3 Details of the supplier of the safety data sheet**

Company : Sigma-Aldrich Inc.  
3050 SPRUCE ST  
ST. LOUIS MO 63103  
UNITED STATES

Telephone : +1 314 771-5765  
Fax : +1 800 325-5052

**1.4 Emergency telephone**

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-  
527-3887 CHEMTREC (International) 24  
Hours/day; 7 Days/week

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Skin irritation (Category 2), H315  
Eye irritation (Category 2A), H319  
Carcinogenicity (Category 1A), H350  
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336  
Short-term (acute) aquatic hazard (Category 2), H401  
Long-term (chronic) aquatic hazard (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

**2.2 GHS Label elements, including precautionary statements**

Pictogram



Signal word

Danger

Hazard statement(s)

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H350 May cause cancer.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

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 skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.  
P391 Collect spillage.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/ container to an approved waste disposal plant.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Formula : CH<sub>2</sub>Cl<sub>2</sub>

Component		Classification	Concentration
<b>Dichloromethane</b>			
CAS-No.	75-09-2	Skin Irrit. 2; Eye Irrit. 2A; Carc. 2; STOT SE 3; H315, H319, H351, H336 Concentration limits: 20 %: STOT SE 3, H336;	<= 100 %
EC-No.	200-838-9		
Index-No.	602-004-00-3		
Registration number	01-2119480404-41-XXXX		
<b>Dinoseb</b>			
CAS-No.	88-85-7	Acute Tox. 2; Acute Tox.	< 0.1 %

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EC-No.	201-861-7	3; Skin Irrit. 2; Eye Dam. 1; Skin Sens. 1; Repr. 1B; Aquatic Acute 1; Aquatic Chronic 1; H300, H311, H315, H318, H317, H360, H400, H410 M-Factor - Aquatic Acute: 10	
Index-No.	609-025-00-7		
<b>1,3,5-Trinitrobenzene</b>			
CAS-No.	99-35-4	Expl. 1.1; Acute Tox. 2; Acute Tox. 1; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H201, H300, H330, H310, H373, H400, H410 M-Factor - Aquatic Acute: 10	< 0.1 %
EC-No.	202-752-7		
Index-No.	609-005-00-8		
<b>diphenylamine</b>			
CAS-No.	122-39-4	Acute Tox. 3; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H301, H331, H311, H373, H400, H410 M-Factor - Aquatic Acute: 10	< 0.1 %
EC-No.	204-539-4		
Index-No.	612-026-00-5		
<b>2,3,4,6-Tetrachlorophenol</b>			
CAS-No.	58-90-2	Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2A; Aquatic Acute 1; Aquatic Chronic 1; H301, H311, H315, H319, H400, H410 Concentration limits: >= 5 %: Eye Irrit. 2, H319; >= 5 %: Skin Irrit. 2, H315; M-Factor - Aquatic Acute: 10 M-Factor - Aquatic Chronic: 1	< 0.1 %
EC-No.	200-402-8		
Index-No.	604-013-00-8		
<b>Pentachlorobenzene</b>			
CAS-No.	608-93-5	Flam. Sol. 1; Acute Tox. 4; Aquatic Acute 1; Aquatic Chronic 1; H228, H302, H400, H410 M-Factor - Aquatic Acute: 10 - Aquatic Chronic: 1	< 0.1 %
EC-No.	210-172-0		
Index-No.	602-074-00-5		
<b>Pentachloronitrobenzene</b>			
CAS-No.	82-68-8	Acute Tox. 4; Skin Sens. 1; Aquatic Acute 1; Aquatic Chronic 1; H302, H317, H400, H410 M-Factor - Aquatic Acute: 10	< 0.1 %
EC-No.	201-435-0		
Index-No.	609-043-00-5		

<b>2-Naphthylamine</b>			
CAS-No.	91-59-8	Acute Tox. 4; Carc. 1A;	>= 0.01 - < 0.1 %
EC-No.	202-080-4	Aquatic Acute 2; Aquatic	
Index-No.	612-022-00-3	Chronic 2; H302, H350, H401, H411 Concentration limits: >= 0.01 %: Carc. 1A, H350;	
<b>2-Toluidine</b>			
CAS-No.	95-53-4	Flam. Liq. 4; Acute Tox. 3;	< 0.1 %
EC-No.	202-429-0	Eye Irrit. 2A; Carc. 1B;	
Index-No.	612-091-00-X	Aquatic Acute 1; Aquatic Chronic 2; H227, H301, H331, H319, H350, H400, H411 M-Factor - Aquatic Acute: 10	
<b>1,3-Dinitrobenzene</b>			
CAS-No.	99-65-0	Acute Tox. 2; Acute Tox. 1; STOT RE 2; Aquatic	< 0.1 %
EC-No.	202-776-8	Acute 1; Aquatic Chronic 1; H300, H330, H310, H373, H400, H410	
Index-No.	609-004-00-2	M-Factor - Aquatic Acute: 10	

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. Call in physician.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### **Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides

Hydrogen chloride gas

Not combustible.

Ambient fire may liberate hazardous vapours.

### 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

### 5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

### 6.2 Environmental precautions

Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

### 6.4 Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### **Advice on safe handling**

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

#### **Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

### Storage conditions

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

### Storage stability

Recommended storage temperature  
-20 °C

### Storage class

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Dichloromethane	75-09-2	TWA	50 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Confirmed animal carcinogen with unknown relevance to humans		
		Potential Occupational Carcinogen		
		PEL	25 ppm	OSHA Specifically Regulated Chemicals/Carcinogens
		OSHA specifically regulated carcinogen		
		STEL	125 ppm	OSHA Specifically Regulated Chemicals/Carcinogens
		OSHA specifically regulated carcinogen		
		PEL	25 ppm 87 mg/m <sup>3</sup>	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		STEL	125 ppm 435 mg/m <sup>3</sup>	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
diphenylamine	122-39-4	TWA	10 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
		Not classifiable as a human carcinogen		

		TWA	10 mg/m3	USA. NIOSH Recommended Exposure Limits
		PEL	10 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
Pentachloronitrobenzene	82-68-8	TWA	0.5 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Not classifiable as a human carcinogen		
2-Toluidine	95-53-4	TWA	2 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		
		Potential Occupational Carcinogen Potential for dermal absorption		
		TWA	5 ppm 22 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		
		TWA	5 ppm 22 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		Skin notation		
		PEL	2 ppm 9 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin		
1,3-Dinitrobenzene	99-65-0	TWA	1 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		
		TWA	1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		
		TWA	0.15 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Danger of cutaneous absorption		
		PEL	0.15 ppm 1 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin		

**Biological occupational exposure limits**

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Dichloromethane	75-09-2	Dichloromethane	0.3 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			
1,3-Dinitrobenzene	99-65-0	Methemoglobin	1.5% Hb	In blood	ACGIH - Biological Exposure Indices (BEI)
		During or at the end of the shift			

**8.2 Exposure controls****Appropriate engineering controls**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

**Personal protective equipment****Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

**Skin protection**

required

**Body Protection**

protective clothing

**Respiratory protection**

required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

**Control of environmental exposure**

Do not let product enter drains.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

- |  |                   |
|--|-------------------|
| a) Appearance                              | Form: liquid      |
| b) Odor                                    | No data available |
| c) Odor Threshold                          | No data available |
| d) pH                                      | No data available |
| e) Melting point/freezing point            | No data available |
| f) Initial boiling point and boiling range | No data available |

g) Flash point	( )Not applicable
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapor pressure	No data available
l) Vapor density	No data available
m) Density	No data available
Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Autoignition temperature	Not applicable
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	Not classified as explosive.
t) Oxidizing properties	none

## 9.2 Other safety information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

no information available

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

In the event of fire: see section 5

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Mixture

##### Acute toxicity

Oral: No data available

LD50 Oral - Rat - male and female - > 2,000 mg/kg (Dichloromethane)  
(OECD Test Guideline 401)

Symptoms: Possible symptoms:, mucosal irritations

LC50 Inhalation - Mouse - 4 h - 86 mg/l - vapor  
(Dichloromethane)

Remarks: (ECHA)

Symptoms: Possible damages:, mucosal irritations

Dermal: No data available

LD50 Dermal - Rat - male and female - > 2,000 mg/kg (Dichloromethane)  
(OECD Test Guideline 402)

No data available

##### Skin corrosion/irritation

Mixture causes skin irritation.

Skin - Rabbit (Dichloromethane)

Result: Irritations - 4 h

(OECD Test Guideline 404)

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product. (Dichloromethane)

##### Serious eye damage/eye irritation

Mixture causes serious eye irritation.

Eyes - Rabbit (Dichloromethane)

Result: Eye irritation

Remarks: (ECHA)

Risk of corneal clouding. (Dichloromethane)

##### Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse (Dichloromethane)

Result: negative

(OECD Test Guideline 429)

##### Germ cell mutagenicity

Test Type: Mutagenicity (mammal cell test): chromosome aberration.  
(Dichloromethane)

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: positive

Test Type: Ames test

(Dichloromethane)

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: positive

(Dichloromethane)

Test Type: In vivo micronucleus test

Species: Mouse

Cell type: Bone marrow  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

### **Carcinogenicity**

Possible human carcinogen

Limited evidence of carcinogenicity in animal studies (Dichloromethane)

Suspected human carcinogens (Dichloromethane)

IARC: 2A - Group 2A: Probably carcinogenic to humans (Dichloromethane)

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

### **Reproductive toxicity**

No data available

### **Specific target organ toxicity - single exposure**

Mixture may cause drowsiness or dizziness.

### **Specific target organ toxicity - repeated exposure**

No data available

### **Aspiration hazard**

No data available

## **11.2 Additional Information**

Repeated dose toxicity - Rat - male and female - Oral - 104 Weeks - NOAEL (No observed adverse effect level) - 6 mg/kg  
(Dichloromethane)

Repeated dose toxicity - Rat - male and female - Inhalation - 104 Weeks  
(Dichloromethane)

Dizziness, Nausea, Vomiting, narcosis, Cough, irritant effects, Unconsciousness, Shortness of breath, respiratory paralysis, somnolence, depressed respiration, CNS disorders, inebriation (Dichloromethane)

Risk of corneal clouding. (Dichloromethane)

The following applies to aliphatic halogenated hydrocarbons in general: systemic effect: narcosis, cardiovascular disorders. Toxic effect on liver, kidneys. (Dichloromethane)

Dichloromethane is metabolized in the body producing carbon monoxide which increases and sustains carboxyhemoglobin levels in the blood, reducing the oxygen-carrying capacity of the blood. (Dichloromethane)

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (Dichloromethane)

Other dangerous properties can not be excluded.

This substance should be handled with particular care.

Handle in accordance with good industrial hygiene and safety practice.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence  
(Dichloromethane)

## Components

### Dichloromethane

#### Acute toxicity

LD50 Oral - Rat - male and female - > 2,000 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Mouse - 4 h - 86 mg/l - vapor

Remarks: (ECHA)

Symptoms: Possible damages:, mucosal irritations

LD50 Dermal - Rat - male and female - > 2,000 mg/kg

(OECD Test Guideline 402)

No data available

#### Skin corrosion/irritation

Skin - Rabbit

Result: Irritations - 4 h

(OECD Test Guideline 404)

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

#### Serious eye damage/eye irritation

Eyes - Rabbit

Result: Eye irritation

Remarks: (ECHA)

Risk of corneal clouding.

#### Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse

Result: negative

(OECD Test Guideline 429)

#### Germ cell mutagenicity

Test Type: Mutagenicity (mammal cell test): chromosome aberration.

Test system: Chinese hamster ovary cells

Result: positive

Test Type: Ames test

Test system: Salmonella typhimurium

Result: positive

Method: OECD Test Guideline 474

Species: Mouse - male and female - Bone marrow

Result: negative

#### Carcinogenicity

Limited evidence of carcinogenicity in animal studies

Suspected human carcinogens

#### Reproductive toxicity

No data available

#### Specific target organ toxicity - single exposure

Inhalation - May cause drowsiness or dizziness. - Central nervous system

Acute inhalation toxicity - Possible damages:, mucosal irritations

#### Specific target organ toxicity - repeated exposure

No data available

#### Aspiration hazard

No data available

## **Dinoseb**

### **Acute toxicity**

LD50 Oral - Rat - male and female - 27 mg/kg

(OECD Test Guideline 401)

Inhalation: No data available

LD50 Dermal - Rat - male and female - 217.5 mg/kg

(OECD Test Guideline 402)

No data available

### **Skin corrosion/irritation**

Skin - EPISKIN Human Skin Model Test

Result: Irritating to skin. - 15 min

(OECD Test Guideline 439)

### **Serious eye damage/eye irritation**

Eyes - Rabbit

Result: Corrosive

(OECD Test Guideline 405)

### **Respiratory or skin sensitization**

Maximization Test - Guinea pig

May cause allergic skin reaction.

(OECD Test Guideline 406)

### **Germ cell mutagenicity**

No data available

Test Type: Ames test

Test system: *S. typhimurium*

Result: negative

Method: OECD Test Guideline 474

Species: Mouse - male and female

Result: negative

### **Carcinogenicity**

No data available

### **Reproductive toxicity**

Presumed human reproductive toxicant

### **Specific target organ toxicity - single exposure**

No data available

### **Specific target organ toxicity - repeated exposure**

No data available

### **Aspiration hazard**

No data available

## **1,3,5-Trinitrobenzene**

### **Acute toxicity**

Acute toxicity estimate Oral - 5.1 mg/kg

(Expert judgment)

LC50 Inhalation - 4 h - 0.051 mg/l - dust/mist

Acute toxicity estimate Dermal - 5.1 mg/kg

(Expert judgment)

No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

May cause damage to organs through prolonged or repeated exposure. Remarks: No data available

**Aspiration hazard**

No data available

**diphenylamine****Acute toxicity**

Acute toxicity estimate Oral - 100.1 mg/kg

(Expert judgment)

Remarks: (Regulation (EC) No 1272/2008, Annex VI)

Acute toxicity estimate Inhalation - 4 h - 0.51 mg/l - dust/mist

(Expert judgment)

Acute toxicity estimate Dermal - 300 mg/kg

(Expert judgment)

No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

Test Type: gene mutation test

Result: negative

Method: OECD Test Guideline 474

Species: Mouse - male and female

Result: negative

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

May cause damage to organs through prolonged or repeated exposure. - Kidney, Liver, spleen

**Aspiration hazard**

No data available

**2,3,4,6-Tetrachlorophenol****Acute toxicity**

LD50 Oral - Rat - 140 mg/kg

Remarks: (RTECS)

Inhalation: No data available

LD50 Dermal - Rabbit - 250 mg/kg

Remarks: (RTECS)

No data available

**Skin corrosion/irritation**

Causes skin irritation. (Regulation (EC) No 1272/2008, Annex VI)

**Serious eye damage/eye irritation**

Causes serious eye irritation. (Regulation (EC) No 1272/2008, Annex VI)

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

Test Type: Hamster

Test system: Lungs

Remarks: Cytogenetic analysis

Test Type: Hamster

Test system: Lungs

Remarks: Mutation in mammalian somatic cells.

**Carcinogenicity**

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

## **Pentachlorobenzene**

### **Acute toxicity**

LD50 Oral - Rat - 1,080 mg/kg

Remarks: Behavioral:General anesthetic.

Behavioral:Tremor.

Inhalation: No data available

LD50 Dermal - Rat - > 2,500 mg/kg

No data available

### **Skin corrosion/irritation**

No data available

### **Serious eye damage/eye irritation**

No data available

### **Respiratory or skin sensitization**

No data available

### **Germ cell mutagenicity**

No data available

### **Carcinogenicity**

No data available

### **Reproductive toxicity**

No data available

No data available

### **Specific target organ toxicity - single exposure**

No data available

### **Specific target organ toxicity - repeated exposure**

No data available

### **Aspiration hazard**

No data available

## **Pentachloronitrobenzene**

### **Acute toxicity**

LD50 Oral - Rat - 1,100 mg/kg

Inhalation: No data available

Dermal: No data available

No data available

### **Skin corrosion/irritation**

No data available

### **Serious eye damage/eye irritation**

No data available

### **Respiratory or skin sensitization**

No data available

### **Germ cell mutagenicity**

No data available

### **Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**2-Naphthylamine****Acute toxicity**

LD50 Oral - Rat - 727 mg/kg

Inhalation: No data available

Dermal: No data available

No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Human carcinogen.

**Reproductive toxicity**

No data available

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

## 2-Toluidine

### Acute toxicity

LD50 Oral - Rat - male - 750 mg/kg  
(OECD Test Guideline 401)  
LC50 Inhalation - Rat - male - 4 h - 3.79 mg/l - vapor  
(OECD Test Guideline 403)  
LD50 Dermal - Rabbit - male - 3,250 mg/kg  
Remarks: (ECHA)  
No data available

### Skin corrosion/irritation

Skin - Rabbit  
Result: Irritations - 24 h  
(Draize Test)

### Serious eye damage/eye irritation

Eyes - Rabbit  
Result: Eye irritation  
(Draize Test)

### Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse  
Result: negative  
(OECD Test Guideline 429)  
The value is given in analogy to the following substances: p-toluidine

### Germ cell mutagenicity

Test Type: sister chromatid exchange assay  
Test system: Chinese hamster ovary cells  
Result: positive  
Remarks: (National Toxicology Program)  
Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster lung cells  
Result: positive  
Remarks: (ECHA)  
Species: Rat - male - Bone marrow  
Result: positive  
Remarks: (National Toxicology Program)

### Carcinogenicity

Presumed to have carcinogenic potential for humans

NTP: The reference note has been added by TD based on the background information of the NTP.

### Reproductive toxicity

No data available

### Specific target organ toxicity - single exposure

No data available

### Specific target organ toxicity - repeated exposure

No data available

### Aspiration hazard

No data available

## 1,3-Dinitrobenzene

### Acute toxicity

Oral: No data available  
Inhalation: No data available  
Dermal: No data available  
No data available

### Skin corrosion/irritation

No data available

### Serious eye damage/eye irritation

No data available

### Respiratory or skin sensitization

No data available

### Germ cell mutagenicity

No data available

### Carcinogenicity

No data available

### Reproductive toxicity

No data available  
Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

### Specific target organ toxicity - single exposure

No data available

### Specific target organ toxicity - repeated exposure

No data available

### Aspiration hazard

No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Mixture

Toxicity to fish	flow-through test LC50 - Pimephales promelas (fathead minnow) - 193.00 mg/l - 96 h (Dichloromethane) Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates	static test LC50 - Daphnia magna (Water flea) - 27 mg/l - 48 h (Dichloromethane) (US-EPA)
Toxicity to bacteria	static test EC50 - activated sludge - 2,590 mg/l - 40 min (Dichloromethane) (OECD Test Guideline 209)

### 12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 28 d (Dichloromethane) Result: 68 % - Readily biodegradable.
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(OECD Test Guideline 301D)

### 12.3 Bioaccumulative potential

Bioaccumulation Cyprinus carpio (Carp) - 6 Weeks  
- 250 µg/l(Dichloromethane)

Bioconcentration factor (BCF): 2 - 5.4  
(OECD Test Guideline 305)

Cyprinus carpio (Carp) - 6 Weeks  
- 25 µg/l(Dichloromethane)

Bioconcentration factor (BCF): 6 - 40  
(OECD Test Guideline 305)

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

No data available

#### Components

##### Dichloromethane

Toxicity to fish	flow-through test LC50 - Pimephales promelas (fathead minnow) - 193.00 mg/l - 96 h Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates	static test LC50 - Daphnia magna (Water flea) - 27 mg/l - 48 h (US-EPA)
Toxicity to bacteria	static test EC50 - activated sludge - 2,590 mg/l - 40 min (OECD Test Guideline 209)

##### Dinoseb

Toxicity to fish	static test LC50 - Pimephales promelas (fathead minnow) - 0.17 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	mortality EC50 - Daphnia magna (Water flea) - 0.24 mg/l - 48 h
Toxicity to algae	Growth inhibition EC50 - Scenedesmus capricornutum (fresh water algae) - 0.74 mg/l - 72 h (OECD Test Guideline 201) Growth inhibition NOEC - Scenedesmus capricornutum (fresh water algae) - 0.03 mg/l - 72 h (OECD Test Guideline 201)

Toxicity to bacteria	Respiration inhibition EC50 - Sludge Treatment - 130 mg/l - 3 h (OECD Test Guideline 209)
<b>1,3,5-Trinitrobenzene</b>	
Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.52 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 2.7 mg/l - 48 h
<b>diphenylamine</b>	
Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 3.79 mg/l - 96.0 h LC50 - Oryzias latipes (Orange-red killifish) - 2.2 mg/l - 48 h Remarks: (IUCLID)
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 2 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	EC50 - Pseudokirchneriella subcapitata (green algae) - 2.17 mg/l - 72 h (OECD Test Guideline 201)
<b>2,3,4,6-Tetrachlorophenol</b>	
Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.29 - 0.38 mg/l - 96.0 h Remarks: (ECOTOX Database)
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - 0.09 mg/l - 48 h Remarks: (ECOTOX Database)
<b>Pentachlorobenzene</b>	
Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 0.247 mg/l - 96.0 h
<b>Pentachloronitrobenzene</b>	
Toxicity to fish	LC50 - Lepomis macrochirus (Bluegill) - 0.1 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.77 mg/l - 48 h
<b>2-Naphthylamine</b>	
No data available	
<b>2-Toluidine</b>	
No data available	

Toxicity to algae	static test EC50 - Pseudokirchneriella subcapitata (green algae) - 30.9 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	Remarks: (ECHA)

### **1,3-Dinitrobenzene**

No data available

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## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

#### **Product**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

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## **SECTION 14: Transport information**

### **DOT (US)**

UN number: 1593    Class: 6.1    Packing group: III  
Proper shipping name: DichloromethaneSOLUTION

Reportable Quantity (RQ): 1028 lbs  
Reportable Quantity (RQ): 100 lbs  
Reportable Quantity (RQ): 1 lbs  
Poison Inhalation Hazard: No

### **IMDG**

UN number: 1593    Class: 6.1    Packing group: III    EMS-No: F-A, S-A  
Proper shipping name: DICHLOROMETHANESOLUTION

### **IATA**

UN number: 1593    Class: 6.1    Packing group: III  
Proper shipping name: DichloromethaneSOLUTION

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## **SECTION 15: Regulatory information**

### **US TSCA Section 3**

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.

### **SARA 302 Components**

This material does not contain any components with a section 302 EHS TPQ.

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### SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Dichloromethane	75-09-2	2007-07-01
2,3,4,6-Tetrachlorophenol	58-90-2	1993-04-24
2,6-Dichlorophenol	87-65-0	2007-03-01

### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

**Reportable Quantity** :  
D024 lbs  
F027 lbs

### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

### Other regulations

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.

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## SECTION 16: Other information

### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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