



# SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Date of issue: 04/19/2016

Version1.0

## SECTION 1. Identification

### Product identifier

Catalog No.	D05686
Product code	6805-OP
Product name	OmniPur® Phenol : Chloroform Phenol saturated with TE buffer for DNA isolation. Comes at pH 6.7 for stability with included TE buffer to raise pH to 8.0 for DNA extraction

OmniPur® Phenol : Chloroform

### Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Biochemical research/analysis
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### Details of the supplier of the safety data sheet

Company	EMD Performance Materials Corp., an Affiliate of Merck KGaA, Darmstadt, Germany, One International Plaza, Suite 300, Philadelphia, PA 19113, 1-888-367-3275, www.emd-pm.com
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Emergency telephone	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week
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## SECTION 2. Hazards identification

### GHS Classification

Acute toxicity, Category 3, Oral, H301  
Acute toxicity, Category 3, Inhalation, H331  
Acute toxicity, Category 4, Dermal, H312  
Skin corrosion, Category 1B, H314  
Serious eye damage, Category 1, H318  
Germ cell mutagenicity, Category 2, H341  
Carcinogenicity, Category 2, H351  
Reproductive toxicity, Category 2, H361  
Specific target organ systemic toxicity - repeated exposure, Category 1, LiverKidney, H372  
Specific target organ systemic toxicity - repeated exposure, Category 2, Nervous systemSkin, H373  
For the full text of the H-Statements mentioned in this Section, see Section 16.

### GHS-Labeling

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## Hazard pictograms



## Signal Word

Danger

## Hazard Statements

H301 + H331 Toxic if swallowed or if inhaled.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs (Liver, Kidney, Nervous system, Skin) 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.

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

P264 Wash skin 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.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

P322 Specific measures (see supplemental first aid instructions on this label).

P363 Wash contaminated clothing before reuse.

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.

## Other hazards

None known.

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## SECTION 3. Composition/information on ingredients

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Chemical nature                      Mixture of organic compounds

## Hazardous ingredients

*Chemical Name (Concentration)*

CAS-No.

*Chloroform (>= 50 % - < 70 % )*

67-66-3

*Phenol (>= 30 % - < 50 % )*

108-95-2

*Isoamyl alcohol (>= 1 % - < 5 % )*

123-51-3

Exact percentages are being withheld as a trade secret.

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## SECTION 4. First aid measures

### Description of first-aid measures

*General advice*

First aider needs to protect himself.

*Inhalation*

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

*Skin contact*

After contact with skin: rinse out with polyethylene glycol 400 or a mixture of polyethylene glycol 300/ethanol 2:1 and wash with plenty of water. If neither is available wash with plenty of water. Immediately take off contaminated clothing. Seek medical advice immediately.

*Eye contact*

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.

*Ingestion*

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible. Do not attempt to neutralize.

After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit.

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

Risk of blindness!

Irritation and corrosion, Cough, Shortness of breath

respiratory arrest, Dizziness, narcosis, agitation, spasms, inebriation, Nausea, Vomiting, Stomach/intestinal disorders, cardiovascular disorders, Headache, ataxia (impaired locomotor coordination), Drying-out effect resulting in rough and chapped skin., Drowsiness,

Unconsciousness, collapse, confusion, death

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

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No information available.

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### SECTION 5. Fire-fighting measures

#### Extinguishing media

*Suitable extinguishing media*

Water, Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder

*Unsuitable extinguishing media*

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

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

Mixture with combustible ingredients.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapors possible in the event of fire.

Fire may cause evolution of:

Hydrogen chloride gas, Phosgene

#### Advice for firefighters

*Special protective equipment for fire-fighters*

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

*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.

Remove container from danger zone and cool with water.

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### SECTION 6. Accidental release measures

#### 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.

Advice for emergency responders:

Protective equipment see section 8.

#### Environmental precautions

Do not let product enter drains.

#### 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.

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## SECTION 7. Handling and storage

### Precautions for safe handling

Observe label precautions.

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

### Conditions for safe storage, including any incompatibilities

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

Refrigerator

The data applies to the entire pack.

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## SECTION 8. Exposure controls/personal protection

### Exposure limit(s)

#### Ingredients

Basis	Value	Threshold limits	Remarks
<i>Chloroform (67-66-3)</i>			
ACGIH	Time Weighted Average (TWA):	10 ppm	
NIOSH/GUIDE	Short Term Exposure Limit (STEL):	2 ppm 9.78 mg/m <sup>3</sup>	
OSHA_TRANS	Ceiling Limit Value:	50 ppm 240 mg/m <sup>3</sup>	
Z1A	Time Weighted Average (TWA):	2 ppm 9.78 mg/m <sup>3</sup>	

#### *Phenol (108-95-2)*

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ACGIH	Time Weighted Average (TWA): Skin designation:	5 ppm	Can be absorbed through the skin.
NIOSH/GUIDE	Skin designation:		Can be absorbed through the skin.
	Ceiling Limit Value and Time Period (if specified):	15.6 ppm 60 mg/m³	Ceiling Limit Value 15-min
	Recommended exposure limit (REL):	5 ppm 19 mg/m³	
OSHA_TRANS	Skin designation:		Can be absorbed through the skin.
	PEL:	5 ppm 19 mg/m³	
Z1A	Time Weighted Average (TWA):	5 ppm 19 mg/m³	
	Skin designation (Final Rule Limit applies):		Can be absorbed through the skin.

### *Isoamyl alcohol (123-51-3)*

ACGIH	Time Weighted Average (TWA):	100 ppm
	Short Term Exposure Limit (STEL):	125 ppm
NIOSH/GUIDE	Recommended exposure limit (REL):	100 ppm 360 mg/m³
	Short Term Exposure Limit (STEL):	125 ppm 450 mg/m³
OSHA_TRANS	PEL:	100 ppm 360 mg/m³
Z1A	Short Term Exposure Limit (STEL):	125 ppm 450 mg/m³
	Time Weighted Average (TWA):	100 ppm 360 mg/m³

## Engineering measures

### Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

### Hygiene measures

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

### Eye/face protection

Tightly fitting safety goggles

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### *Hand protection*

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

### *Other protective equipment:*

protective clothing

### *Respiratory protection*

required when vapors/aerosols are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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## **SECTION 9. Physical and chemical properties**

Physical state	liquid
Color	clear
Odor	No strong odor known.
Odor Threshold	No information available.
pH	No information available.
Melting point	No information available.
Boiling point	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapor pressure	No information available.
Relative vapor density	No information available.
Density	No information available.
Relative density	No information available.

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Water solubility	partly miscible
Partition coefficient: n-octanol/water	No information available.
Autoignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none

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### SECTION 10. Stability and reactivity

#### Reactivity

Forms explosive mixtures with air on intense heating.

#### Chemical stability

heat-sensitive  
Sensitivity to light

#### Possibility of hazardous reactions

Violent reactions possible with:

Risk of explosion/exothermic reaction with:

Ammonia, Amines, nitrogen oxides, Strong bases, bases, strong alkalis, Oxygen, alkali amides, organic nitro compounds, Alcohols, alkali hydroxides, Fluorine, Alkaline earth metals, Alkali metals, Powdered metals

Methanol, with, alcoholates

Iron, in powder form

various alloys, sensitive to shock

Methanol, with, Sodium hydroxide

magnesium, in powder form

Aluminum, in powder form

Acetone, with, alkali compounds

Oxygen, with, alkali compounds

Potassium, sensitive to shock

sodium, sensitive to shock

phosphines, bis(dimethylamino)dimethyl tin, nonmetallic hydrogen compounds, Light metals, Ketones, mineral acids, Strong oxidizing agents, semimetallic hydrogen compounds

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nitrites, nitrates, salts of oxyhalogenic acids, peroxi compounds, Aldehydes, formaldehyde, halogens, hydrogen peroxide, iron(III) compounds, Strong acids

### Conditions to avoid

Strong heating.

### Incompatible materials

rubber, various plastics, various alloys, various metals

### Hazardous decomposition products

in the event of fire: See section 5.

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## SECTION 11. Toxicological information

### Information on toxicological effects

#### *Likely route of exposure*

Eye contact, Skin contact

#### *Acute oral toxicity*

Acute toxicity estimate: 181.18 mg/kg

Calculation method

absorption

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach., Nausea, Vomiting, Risk of aspiration upon vomiting., Aspiration may cause pulmonary edema and pneumonitis.

#### *Acute inhalation toxicity*

Acute toxicity estimate: 3.04 mg/l; 4 h

Calculation method

absorption

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract

#### *Acute dermal toxicity*

Acute toxicity estimate : 1,375 mg/kg

Calculation method

absorption

#### *Skin irritation*

Mixture causes burns.

#### *Eye irritation*

Mixture causes serious eye damage. Risk of blindness!

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### *CMR effects*

#### Carcinogenicity:

Evidence of a carcinogenic effect if inhaled.

#### Mutagenicity:

Evidence of genetic defects.

#### Teratogenicity:

Evidence of harm to the unborn child.

#### Reproductive toxicity:

Suspected of damaging fertility.

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

Mixture may cause respiratory irritation.

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

Target Organs: Liver, Kidney Mixture causes damage to organs through prolonged or repeated exposure.

Target Organs: Central nervous system, Skin Mixture may cause damage to organs through prolonged or repeated exposure.

### *Aspiration hazard*

Regarding the available data the classification criteria are not fulfilled.

## **Carcinogenicity**

IARC	Group 2B: Possibly carcinogenic to humans Chloroform 67-66-3
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	Anticipated carcinogen. Chloroform 67-66-3
ACGIH	Confirmed animal carcinogen with unknown relevance to humans. Chloroform 67-66-3

## **Further information**

### Systemic effects:

#### After absorption:

Dizziness, inebriation, agitation, spasms, narcosis, respiratory arrest, Drowsiness, confusion, Unconsciousness, collapse, Changes in the blood count

#### After long-term exposure to the chemical:

drop in blood pressure, Headache, ataxia (impaired locomotor coordination), Stomach/intestinal disorders, cardiovascular disorders, respiratory arrest, death

#### Damage to:

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Liver, Kidney, Cardiac  
Effect potentiated by: ethanol  
This substance should be handled with particular care.

## Ingredients

### Chloroform

*Acute oral toxicity*

LD50 Rat: 695 mg/kg (RTECS)

*Acute inhalation toxicity*

Acute toxicity estimate: 0.5 mg/l; aerosol

*Acute dermal toxicity*

LD50 Rabbit: > 3,980 mg/kg (IUCLID)

*Skin irritation*

Rabbit

Result: slight irritation  
(IUCLID)

### Phenol

*Acute dermal toxicity*

LD50 Rat: 660 mg/kg

OECD Test Guideline 402

*Skin irritation*

In vitro study

Result: Causes burns.

OECD Test Guideline 431

*Eye irritation*

Rabbit

Result: Corrosive

OECD Test Guideline 405

*Sensitization*

Sensitization test: Guinea pig

Result: negative

(IUCLID)

*Germ cell mutagenicity*

*Genotoxicity in vitro*

Mutagenicity (mammal cell test): chromosome aberration.

Result: positive

Method: OECD Test Guideline 473

Mutagenicity (mammal cell test): micronucleus.

Result: positive

Method: OECD Test Guideline 405

### Isoamyl alcohol

*Acute oral toxicity*

LD50 Rat: > 5,000 mg/kg (External MSDS)

*Acute inhalation toxicity*

Acute toxicity estimate: 11.1 mg/l; vapor

Expert judgment

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*Acute dermal toxicity*  
LD50 Rabbit: > 3,000 mg/kg (External MSDS)

*Germ cell mutagenicity*  
*Genotoxicity in vitro*  
Ames test  
Result: negative  
(Lit.)

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## SECTION 12. Ecological information

### Ecotoxicity

No information available.

### Persistence and degradability

No information available.

### Bioaccumulative potential

No information available.

### Mobility in soil

No information available.

### Ingredients

#### Chloroform

*Toxicity to fish*  
LC50 *Lepomis macrochirus* (Bluegill sunfish): 18 mg/l; 96 h (IUCLID)

*Toxicity to daphnia and other aquatic invertebrates*  
EC50 *Daphnia magna* (Water flea): 79 mg/l; 48 h (IUCLID)

EC5 *E.sulcatum*: > 6,560 mg/l; 72 h (IUCLID) (maximum permissible toxic concentration)

*Toxicity to algae*  
IC5 *Scenedesmus quadricauda* (Green algae): 1,100 mg/l; 8 d (IUCLID) (maximum permissible toxic concentration)

*Toxicity to bacteria*  
EC5 *Pseudomonas putida*: 125 mg/l; 16 h (IUCLID) (maximum permissible toxic concentration)

EC50 activated sludge: 1,010 mg/l; 3 h  
OECD Test Guideline 209

*Biodegradability*  
0 %; 14 d  
OECD Test Guideline 301C  
Not readily biodegradable.

*Distribution among environmental compartments*  
Adsorption/Soil  
log K<sub>oc</sub>: 1.72  
(experimental)  
Mobile in soils

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Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

#### *Henry constant*

14084 Pa·m<sup>3</sup>/mol

Method: (experimental)

(IUCLID) Distribution preferentially in air.

## Phenol

#### *Toxicity to fish*

LC50 *Oncorhynchus mykiss* (rainbow trout): 5.0 mg/l; 96 h (ECOTOX Database)

#### *Toxicity to daphnia and other aquatic invertebrates*

static test EC50 *Ceriodaphnia dubia* (water flea): 3.1 mg/l; 48 h  
US-EPA

#### *Toxicity to algae*

IC50 *Scenedesmus quadricauda* (Green algae): 7.5 mg/l; 8 d (IUCLID) (maximum permissible toxic concentration)

static test EC50 *Pseudokirchneriella subcapitata* (algae): 61.1 mg/l; 96 h  
US-EPA

#### *Toxicity to bacteria*

EC50 activated sludge: 766 mg/l; 3 h  
OECD Test Guideline 209

#### *Toxicity to fish (Chronic toxicity)*

semi-static test NOEC *Poecilia reticulata* (guppy): 4 mg/l; 14 d

OECD Test Guideline 204

#### *Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)*

semi-static test EC10 *Daphnia magna* (Water flea): 0.46 mg/l; 16 d  
(ECHA)

#### *Biodegradability*

100 %; 6 d

OECD Test Guideline 302B

Easily eliminable.

85 %; 14 d

OECD Test Guideline 301C

Readily biodegradable.

#### *Biochemical Oxygen Demand (BOD)*

1,680 mg/g (5 d)

(IUCLID)

#### *Chemical Oxygen Demand (COD)*

2,300 mg/g

(IUCLID)

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

## Isoamyl alcohol

#### *Toxicity to fish*

LC50 *Oncorhynchus mykiss* (rainbow trout): 700 mg/l; 96 h (IUCLID)

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*Toxicity to daphnia and other aquatic invertebrates*  
EC50 Daphnia: 260 mg/l; 48 h (IUCLID)

EC50 Tetrahymen pyriformis: 1,184 mg/l; 48 h (IUCLID)

*Toxicity to algae*  
IC50 Desmodesmus subspicatus (green algae): 493 mg/l; 72 h (IUCLID)

*Toxicity to bacteria*  
EC50 Pseudomonas putida: 2,500 mg/l; 17 h (IUCLID)

*Biodegradability*  
84 %; 27 d  
OECD Test Guideline 301C  
Readily biodegradable.

*Theoretical oxygen demand (ThOD)*  
2,740 mg/g  
(Lit.)

*Ratio BOD/COD*  
63 %  
(IUCLID)

*Ratio BOD/ThBOD*  
BOD5 55 %  
(Lit.)

*Ratio COD/ThBOD*  
77 %  
(Lit.)

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

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## SECTION 13. Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

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## SECTION 14. Transport information

### Land transport (DOT)

UN number	UN2810
Proper shipping name	TOXIC LIQUID, ORGANIC, N.O.S.
Class	6.1
Packing group	II

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**Environmentally hazardous** --

## Air transport (IATA)

UN number	UN 2810
Proper shipping name	TOXIC LIQUID, ORGANIC, N.O.S.
Class	6.1
Packing group	II
Environmentally hazardous	--
Special precautions for user	no

## Sea transport (IMDG)

UN number	UN 2810
Proper shipping name	TOXIC LIQUID, ORGANIC, N.O.S.
Class	6.1
Packing group	II
Environmentally hazardous	--
Special precautions for user	yes
EmS	F-A S-A

THIS TRANSPORT DATA APPLIES TO THE ENTIRE PACK!

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## SECTION 15. Regulatory information

### United States of America

#### SARA 313

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

#### *Ingredients*

Phenol	108-95-2
Chloroform	67-66-3

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## SARA 302

The following components are subject to reporting levels established by SARA Title III, Section 302:

### *Ingredients*

Phenol 108-95-2  
Chloroform 67-66-3

## Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

### *Ingredients*

Phenol  
Chloroform

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

### *Ingredients*

Phenol  
Chloroform

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

### *Ingredients*

Phenol  
Chloroform

## DEA List I

Not listed

## DEA List II

Not listed

## US State Regulations

### Massachusetts Right To Know

#### *Ingredients*

Chloroform  
Phenol  
Isoamyl alcohol

### Pennsylvania Right To Know

#### *Ingredients*

Chloroform  
Phenol  
Isoamyl alcohol

### New Jersey Right To Know

#### *Ingredients*

Chloroform  
Phenol

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according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

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Product name	OmniPur® Phenol : Chloroform Phenol saturated with TE buffer for DNA isolation. Comes at pH 6.7 for stability with included TE buffer to raise pH to 8.0 for DNA extraction OmniPur® Phenol : Chloroform	

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Isoamyl alcohol

### California Prop 65 Components

WARNING: this product contains a chemical known in the State of California to cause cancer.

#### Ingredients

Chloroform

### California Prop 65 Components

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

#### Ingredients

Chloroform

### Notification status

TSCA: All components of the product are listed in the TSCA-inventory.

DSL: All components of this product are on the Canadian DSL

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## SECTION 16. Other information

### Training advice

Provide adequate information, instruction and training for operators.

### Labeling

#### Hazard pictograms



#### Signal Word

Danger

#### Hazard Statements

H301 + H331 Toxic if swallowed or if inhaled.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs (Kidney, Liver, Central nervous system, Skin, Nervous system) through prolonged or repeated exposure.

#### Precautionary Statements

Prevention

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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# SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number	D05686	Version1.0
Product name	OmniPur® Phenol : Chloroform Phenol saturated with TE buffer for DNA isolation. Comes at pH 6.7 for stability with included TE buffer to raise pH to 8.0 for DNA extraction OmniPur® Phenol : Chloroform	

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## Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

## Full text of H-Statements referred to under sections 2 and 3.

H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.

## Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

Date of issue:04/19/2016

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The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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