

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name:**  
pH Indicator (Phenol Red)  
**Product number:**  
94X377004 ; 35645-60

### 1.2 Relevant Identified uses of the substance or mixture and uses advised against

No further relevant information available.  
**Application of the substance / the preparation:**  
Reagent for water analysis

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

**Company name:**  
THERMO FISHER SCIENTIFIC Inc  
Blk 55, Ayer Rajah Crescent, #04-16/24, Singapore 139949,  
Website: www.eutechinst.com  
E-mail : eutech@thermofisher.com  
**Telephone number:** (65) 6778 6876.  
**Fax number:** (65) 6773 0836.  
**1.4 Emergency telephone number**  
CHEMTREC 24 HR Emergency : SINGAPORE : 800-101-2201 International : +1 703-741-5970

## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**  
The product is not classified as hazardous according to the CLP regulation.  
**Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.  
**Information concerning particular hazards for human and environment:**  
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" (1999/45/EC) in the latest valid version.  
No hazards to be particularly mentioned.

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008**  
Not applicable.  
**Hazard pictograms**  
Not applicable.  
**Signal word**  
Not applicable.  
**Hazard statements**  
Not applicable.

## SECTION 3. Composition/information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

**Description:** Preparation contains organic compounds.

**Dangerous components:** Void  
**REACH -Pre-registered substances** All components are REACH pre-registered.

## SECTION 4. First aid measures

### 4.1 Description of first aid measures

**General information:** Instantly remove any clothing soiled by the product.  
**After Inhalation:**  
Move victim to fresh air. In case of respiratory difficulties seek medical attention.  
**After Skin contact:**  
Instantly wash with water and soap and rinse thoroughly.  
**After Eye contact:**  
Rinse opened eye for several minutes under running water (at least 15 minutes).  
If symptoms persist, consult doctor

### After swallowing

Rinse out mouth and then drink 1-2 glasses of water.  
In case of persistent symptoms consult doctor.

**4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## SECTION 5. Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

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

### 5.3 Advice for firefighters

**Protective equipment:**  
Wear self-contained breathing apparatus.  
Wear full protective suit.  
**Additional information**  
Collect contaminated fire fighting water separately. It must not enter drains.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Ambient fire may liberate hazardous vapours.

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## SECTION 6. Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

### 6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies.  
Dilute with much water.

### 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.  
Dispose of contaminated material as waste according to item 13.  
Absorb with liquid-binding material (sand, diatomite, universal binders).

### 6.4 Reference to other sections:

No dangerous materials are released.  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

## SECTION 7. Handling and storage

### 7.1 precautions for safe handling

No special precautions necessary if use correctly.

### Information about protection against explosions and fires:

The product is not flammable.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

#### Requirements to be met by storerooms and containers:

Store in cool location.

#### Information about storage in one common storage facility:

Not required.

#### Further information about storage conditions:

Protect from heat and direct sunlight.  
Store under dry conditions.  
Protect from humidity and keep away from water.  
Protect from the effects of light.

#### Recommended storage temperature:

20 °C +/- 5 °C

#### Storage class 12

#### 7.3 Specific end use(s)

No further relevant information available.

## SECTION 8. Exposure controls/personal protection

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

### 8.1 Control parameters

Components with limit values that require monitoring at the workplace.	
57-55-6 propane-1,2-diol (10-20%)	
WEL (Great Britain)	Long-term value: 474 * 10 ** mg/m <sup>3</sup> , 150* ppm *Total vapour and particulates ** particulates

### 8.2 Exposure controls

#### Personal protective equipment

#### General protective and hygienic measures

Wash hands during breaks and at the end of the work.  
Do not eat, drink or smoke while working.

#### Breathing equipment:

Use breathing protection against effects of fumes/dust/aerosol.

#### Recommended filter device for short term use:

Filter B

#### Protection Of hands:

Preventive skin protection by use of skin-protecting agents is recommended.

#### Material Of gloves

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

#### 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.

Value for the permeation: Level ≤ 1(>10 min)

#### Eye protection:

Safety glasses

use against the effects of fumes / dust

#### Body protection:

Protective work clothing.

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## SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties	
Appearance:	
Form:	Fluid
colour:	Light red
Odour:	Odourless
Odour threshold:	Not determined.
pH-value	7.1
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	100°C Not determined
Flash point:	> 100 °C
Inflammability (solid, gaseous)	Not applicable
Danger Of explosion:	Product is not explosive.
Critical values for explosion	
Lower:	Not determined
Upper:	Not determined
Density:	Not determined
Relative density	Not determined
Vapour density	Not determined
Evaporation rate	Not determined
Solubility in / Miscibility with	
Water:	Fully miscible
Segregation coefficient (n-octanol/water):	Not determined
Viscosity:	
Dynamic:	Not determined
kinematic	Not determined
Solvent content:	
Organic solvents:	< 20 %
Solids content:	>80%

### 9.2 Other information

No further relevant information available

## SECTION 10. Stability and reactivity

### Reactivity

#### Thermal decomposition /conditions to be avoided:

To avoid thermal decomposition do not overheat.

#### Conditions to avoid:

No further relevant information available.

#### Incompatible materials:

No further relevant information available.

#### Hazardous decomposition products:

See chapter 5

## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity:

Quantitative data on the toxicity of the preparation are not available.

The following statements refer to the individual components.

#### Primary irritant effect:

##### on the skin:

No irritant effect.

##### on the eye:

No irritant effect.

#### Sensitization:

No sensitizing effect known.

#### Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The usual precautionary measures should be adhered to general rules for handling chemicals.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

No data available

## SECTION 12. Ecological information

### 12.1 Toxicity

#### Aquatic toxicity:

No further relevant information available.

### 12.2 Persistence and degradability

No further relevant information available.

#### Other information:

Quantitative data on the ecological effect of this are not available.

### 12.3 Bioaccumulative potential

No further relevant information available.

#### Behaviour in environmental systems:

### 12.4 Mobility in soil

No further relevant available.

#### Additional ecological information:

##### General notes:

Water danger class 1 (German Regulation) (Self-assessment acc. VwVwS Annex 4): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

No further relevant information available.

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## SECTION 13. Disposal considerations

### 13.1 Waste treatment methods

#### Recommendation

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

European waste catalogue	
16 05 09	discarded chemicals other than those mentioned in 16 05 06,16 05 07 or 16 05 08

#### Uncleaned packagings:

#### Recommendation:

Disposal must be made according to official regulations.

#### Recommended cleaning agent:

Water, if necessary with cleaning agent.

## SECTION 14. Transport information

14.1 UN-Number ADR, ADN, IMDG, IATA	Void
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void
14.3 Transport hazard class(es) ADR, ADN, IMDG, IATA Class	Void
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.

## SECTION 15. Regulatory information

### 15.4 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

Information about limitation of use: Not required.

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

## SECTION 16. Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Abbreviations and acronyms:

CAS - Chemical Abstracts Service

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

NLP - EU No Longer Polymers

IECSC - Chinese Inventory of Existing Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

AICS - Australian Inventory of Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

WEL - Workplace Exposure Limit

TWA - Time Weighted Average

DNEL - Derived No Effect Level

PNEC - Predicted No Effect Concentration

NOEC - No Observed Effect Concentration

RPE - Respiratory Protective Equipment

LD50 - Lethal Dose 50%

LC50 - Lethal Concentration 50%

EC50 - Effective Concentration 50%

ATE - Acute Toxicity Estimate

POW - Partition coefficient Octanol:Water

PBT - Persistent, Bioaccumulative, Toxic

vPvB - very Persistent, very Bioaccumulative

BCF - Bioconcentration factor

IARC - International Agency for Research on Cancer

NTP - National Toxicity Program

OSHA - United States Occupational Safety and Health Administration

ACGIH - American Conference of Governmental Industrial Hygienists

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

NFPA - United States National Fire Protection Association

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from Ships

DOT - United States Department of Transportation

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

#### Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to this specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.